

*EL SEGUNDO POWER, LLC*  
*301 Vista Del Mar*  
*El Segundo, CA 90245*

*Phone: 310.615.6387*  
*FAX: 310.615.6060*

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September 24, 2004

John Bishop, P.E.  
C/O California Regional Water Quality Control Board  
Los Angeles Region  
ATTN: Technical Support Unit  
320 W 4<sup>th</sup> Street, Suite 200  
Los Angeles, CA 90013

Subject: Submittal of Application for Renewal of NPDES Permit  
El Segundo Power LLC

Attached please find the Application for the Renewal of the NPDES Permit for El Segundo Power, LLC. This Application is being submitted early so that it may be deemed complete in a timely manner. The submittal of the Application for Renewal is in compliance with the requirements as set forth in the NPDES Permit Number CA0001147, California Regional Water Quality Control Board, Los Angeles Region Order Number 00-084, covering wastes discharged at El Segundo Power LLC. Please refer this to compliance file CI 4667.

Analyses were conducted at a laboratory certified for such analyses by the State Department of Health Service or approved by the Executive Officer and in accordance with current EPA guideline procedures or as specified in the Monitoring Program.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. "I am aware that there are significant penalties for submitting false information, including the possibility, of a fine and imprisonment for knowing violations."

If you should have any questions regarding this report please contact Alex Sanchez at 310.615.6351.

Executed on the 24th day of September 2004, at the El Segundo Generating Station.

Sincerely,

El Segundo Power, LLC  
By: NRG El Segundo Operations Inc.,  
It's Authorized Agent

By: 

Audun Aaberg  
Regional Manager

ENCL: Enclosed Attachments  
File Number: 1 A 6 1

**APPLICATION FOR RENEWAL OF NPDES PERMIT  
FOR THE EL SEGUNDO POWER, LLC  
*El Segundo Generating Station*  
(Permit No. CA0001147)**

***Submitted  
To the  
Los Angeles Regional Water Quality Control Board  
September 24, 2004***

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Section 10	Request For Schedule to Submit Information For Rule 316 (b) Phase II Compliance

*Los Angeles Regional Water Quality Control Board Order 00-084 (Waste Discharge Requirements for El Segundo Power, LLC El Segundo Generating Station) expires on May 10, 2005. This application is being submitted for the renewal of the permit.*

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The following California and Federal application forms are enclosed:

- Signatory and Certification Statement to NPDES Permit Applications
- SWRCB Contributions Disclosure Statement
- SWRCB Form 200
- EPA Form 1
- EPA Form 2C

These applications contain the following Attachments and Appendices:

**SWRCB FORM 200:**

*Section VI. – Characterization Information and Site Map*

Attached to this application are the following U.S. EPA applications:

- Form 1
- Form 2C

These forms and their attachments provide a complete characterization of this facility's NPDES discharge, and include:

- Water mass balance schematic
- SWPPP
- Site map

### **SWRCB Form 1:**

➤ **Attachments:**

- Figure 1: Location Map
- Figure 2: Hazardous Materials Locations
- Figure 3: El Segundo Power Generating Station Map

### **EPA Form 2C**

➤ **Attachment 1** —Schematic of Water Flow

➤ **Appendices:**

- **A –** Description of El Segundo Generating Station's Facilities, Operations and Discharges, including:
  - Plant & Operations Description
  - Historical Monitoring Data including 24-hour Composite Sampling Results
  - Requested Changes to the Permit
- **B –** Application Sampling and Analysis Laboratory Report
- **C –** Business Owner/Operation Identification Manual
- **D –** Storm Water Pollution Prevention Plan

***Section 1.0***  
***Form 200 and Contributions Disclosure Statement***



# APPLICATION/REPORT OF WASTE DISCHARGE GENERAL INFORMATION FORM FOR WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT



## A. Facility:

## I. FACILITY INFORMATION

Name: El Segundo Power, LLC			
Address: 301 Vista Del Mar			
City: El Segundo	County: LA	State: CA	Zip Code: 90245
Contact Person: Audun Aaberg		Telephone Number: 310-615-6342	

## B. Facility Owner:

Name: El Segundo Power, LLC			Owner Type (Check One)	
Address: 301 Vista Del Mar			1. <input type="checkbox"/> Individual 2. <input checked="" type="checkbox"/> Corporation	
City: El Segundo			3. <input type="checkbox"/> Governmental Agency 4. <input type="checkbox"/> Partnership	
State: CA			5. <input type="checkbox"/> Other: _____	
Zip Code: 90245				
Contact Person: Audun Aaberg		Telephone Number: 310-615-6342	Federal Tax ID: 41-197-9997	

## C. Facility Operator (The agency or business, not the person):

Name: NRG El Segundo Operations Inc.			Operator Type (Check One)	
Address: 301 Vista Del Mar			1. <input type="checkbox"/> Individual 2. <input checked="" type="checkbox"/> Corporation	
City: El Segundo			3. <input type="checkbox"/> Governmental Agency 4. <input type="checkbox"/> Partnership	
State: CA			5. <input type="checkbox"/> Other: _____	
Zip Code: 90245				
Contact Person: Audun Aaberg		Telephone Number: 310-615-6342		

## D. Owner of the Land:

Name: Same as facility owner			Owner Type (Check One)	
Address:			1. <input type="checkbox"/> Individual 2. <input type="checkbox"/> Corporation	
City:			3. <input type="checkbox"/> Governmental Agency 4. <input type="checkbox"/> Partnership	
State: CA			5. <input type="checkbox"/> Other: _____	
Zip Code:				
Contact Person:		Telephone Number:		

## E. Address Where Legal Notice May Be Served:

Address: 301 Vista Del Mar			
City: El Segundo	State: CA	Zip Code: 90245	
Contact Person: Audun Aaberg		Telephone Number: 310-615-6342	

## F. Billing Address:

Address: Same as facility owner			
City:	State:	Zip Code:	
Contact Person:		Telephone Number:	

CALIFORNIA ENVIRONMENTAL  
PROTECTION AGENCYState of California  
Regional Water Quality Control BoardAPPLICATION/REPORT OF WASTE DISCHARGE  
GENERAL INFORMATION FORM FOR  
WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT

## II. TYPE OF DISCHARGE

Check Type of Discharge(s) Described in this Application (A or B):

☐ A. WASTE DISCHARGE TO LAND☒ B. WASTE DISCHARGE TO SURFACE WATER

Check all that apply:

☐ Domestic/Municipal Wastewater  
Treatment and Disposal☒ Cooling Water☐ Mining☐ Waste Pile☐ Wastewater Reclamation☐ Other, please describe: \_\_\_\_\_☐ Animal Waste Solids☐ Land Treatment Unit☐ Dredge Material Disposal☐ Surface Impoundment☒ Industrial Process Wastewater☐ Animal or Aquacultural Wastewater☐ Biosolids/Residual☐ Hazardous Waste (see instructions)☐ Landfill (see instructions)☒ Storm Water

## III. LOCATION OF THE FACILITY

Describe the physical location of the facility.

1. Assessor's Parcel Number(s)

Facility: 19-013-300011

Discharge Point: \_\_\_\_\_

2. Latitude

Facility: 33 DEG 54' 29" N

Discharge Point: 33 DEG 54' 30" N

3. Longitude

Facility: 118 DEG 25' 22" W

Discharge Point: 118 DEG 25' 50" W

## IV. REASON FOR FILING

☐ New Discharge or Facility☐ Changes in Ownership/Operator (see instructions)☐ Change in Design or Operation☒ Waste Discharge Requirements Update or NPDES Permit Reissuance☐ Change in Quantity/Type of Discharge☐ Other: \_\_\_\_\_

## V. CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

Name of Lead Agency: Los Angeles Regional Quality Control BoardHas a public agency determined that the proposed project is exempt from CEQA? ☒ Yes ☐ No

If Yes, state the basis for the exemption and the name of the agency supplying the exemption on the line below.

Basis for Exemption/Agency: California Water Code Section 13389/Los Angeles RWQCBHas a "Notice of Determination" been filed under CEQA? ☐ Yes ☒ No

If Yes, enclose a copy of the CEQA document, Environmental Impact Report, or Negative Declaration. If no, identify the expected type of CEQA document and expected date of completion.

Expected CEQA Documents:

☐ EIR☐ Negative DeclarationExpected CEQA Completion Date: N/A

CALIFORNIA ENVIRONMENTAL  
PROTECTION AGENCYState of California  
Regional Water Quality Control BoardAPPLICATION/REPORT OF WASTE DISCHARGE  
GENERAL INFORMATION FORM FOR  
WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT

## VI. OTHER REQUIRED INFORMATION

Please provide a COMPLETE characterization of your discharge. A complete characterization includes, but is not limited to, design and actual flows, a list of constituents and the discharge concentration of each constituent, a list of other appropriate waste discharge characteristics, a description and schematic drawing of all treatment processes, a description of any Best Management Practices (BMPs) used, and a description of disposal methods.

Also include a site map showing the location of the facility and, if you are submitting this application for an NPDES permit, identify the surface water to which you propose to discharge. Please try to limit your maps to a scale of 1:24,000 (7.5' USGS Quadrangle) or a street map, if more appropriate.

## VII. OTHER

Attach additional sheets to explain any responses which need clarification. List attachments with titles and dates below:

Attachment 1: Form 200 Section VI. (Characterization Information and Site Map)

You will be notified by a representative of the RWQCB within 30 days of receipt of your application. The notice will state if your application is complete or if there is additional information you must submit to complete your Application/Report of Waste Discharge, pursuant to Division 7, Section 13260 of the California Water Code.

## VIII. CERTIFICATION

"I certify under penalty of law that this document, including all attachments and supplemental information, were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Print Name: Audrey AsbergTitle: Regional Plant Manager, El Segundo Power, LLCSignature: [Signature]Date: [Signature]AUDREY ASBERG  
REGIONAL PLANT MANAGEREl Segundo Power, LLC  
by: NRG El Segundo Operations, Inc.  
It's Authorized Agent  
(310) 529-3257

## FOR OFFICE USE ONLY

Date Form 200 Received:	Letter to Discharger:	Fee Amount Received:	Check #:
-------------------------	-----------------------	----------------------	----------

***Section 2.0***  
***EPA Form 1 and Site Maps***



Consolidated Financial Statements

(Place the "General Instructions" below inside.)

1. CP412, 2019

CARLHILLIN68JX

STN

### SYMBOL TERMS

PAID NUMBER

**RACIETY NAME**

**FACILITY MAILING**  
ADDRESS ONLY

### FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

[illegible]

### POLLUTANT CHARACTERISTICS:

[illegible][illegible]

NAME OF RECIPIENT: \_\_\_\_\_

El Secreto Puro, LLC

**PARALLEL PROCESSES**

Aubrey Azubuike Regional Plants Manager

3106156342

PAGE FIFTY-NINE

30 | Viesas del Mar

El Segundo

CA

407245

IDENTIFICATION-20

3011 Vista Del Mar

Los Angeles

El Nazamili

62

5245

4911 (specify) Electric Power Generation

(specify)

(specify)

(specify)

NRG El Segundo Operations Inc.

B. Is the name listed in Item VIII-A also the owner?

No

FEDERAL  
S-STATE  
PRIVATEM-PLUG (other than below or state)  
C-OI HIGH (specify)

P

(specify)

3106156387

301 Vista Del Mar

El Segundo

CA

90245

Is the facility located on Indian  
lands? No

CA0001147

(specify)

(specify)

sch to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the city, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

To generate electricity.

ify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, ed on my inquiry of those persons immediately responsible for obtaining the information contained in this application, I believe that the information is true, urate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME &amp; OFFICIAL TITLE (type or print)

B. SIGNATURE

C. DATE SIGNED

AUDUN AABERG, REGIONAL PLANT MANAGER

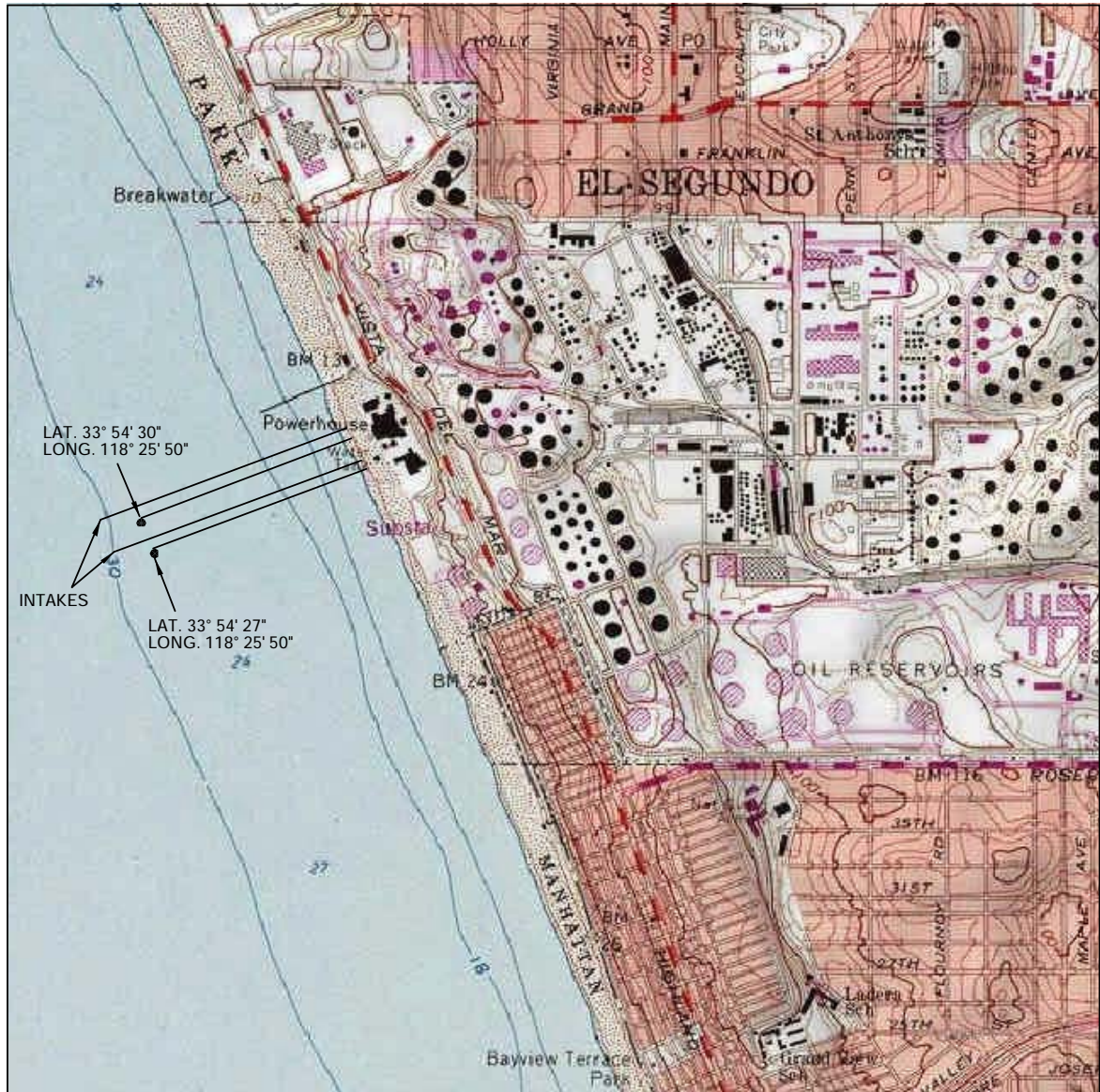
El Segundo Power, LLC  
by: NRG El Segundo Operations, Inc.  
NRG 2510 1/3/99  
It's authorized agent

Form 3

Page 2 of 2

DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
J. VASQUEZ	DB/31/04	--	1009724001-A1

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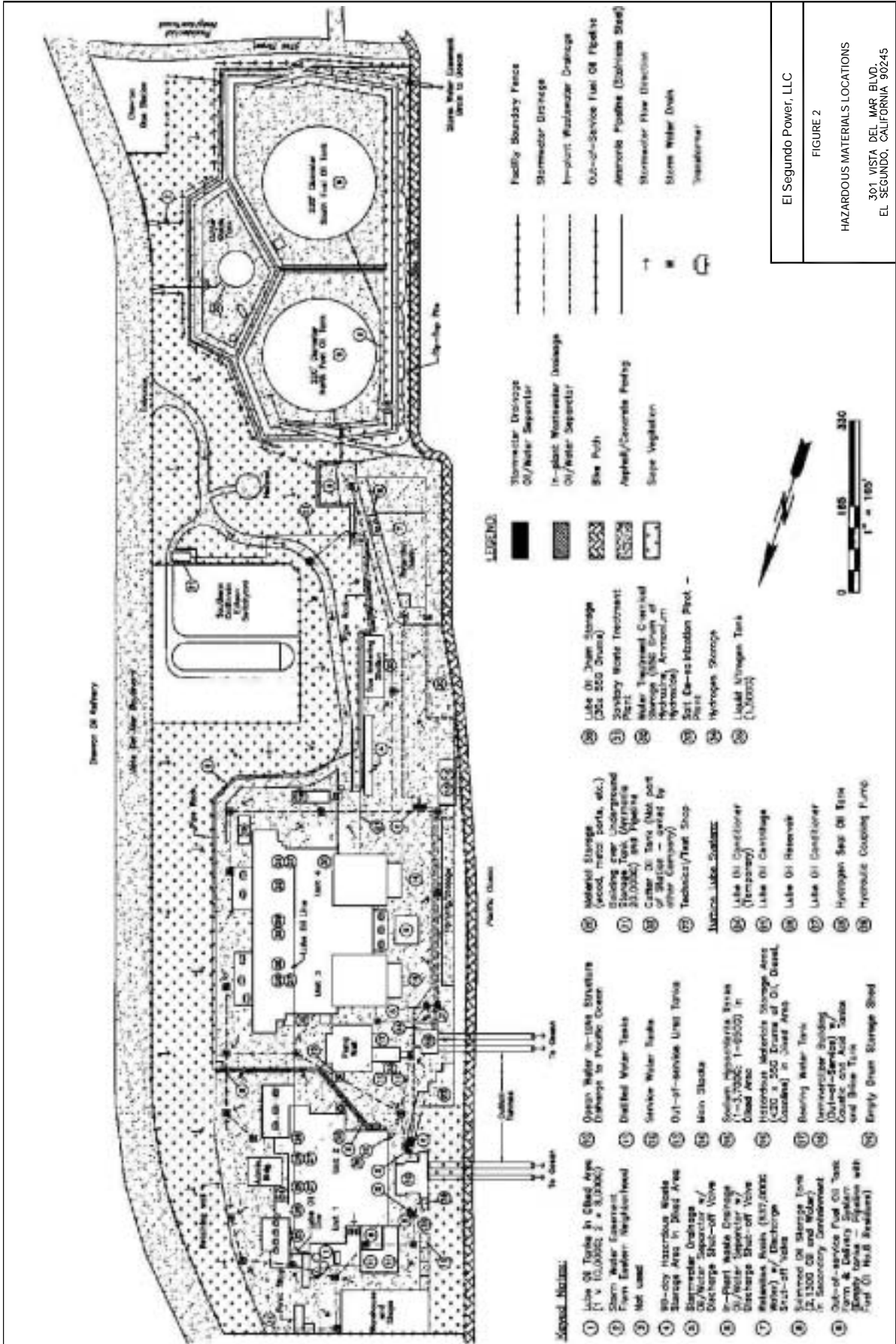


El Segundo Power, LLC

FIGURE 1

LOCATION MAP

301 VISTA DEL MAR BLVD.  
EL SEGUNDO, CALIFORNIA 90245



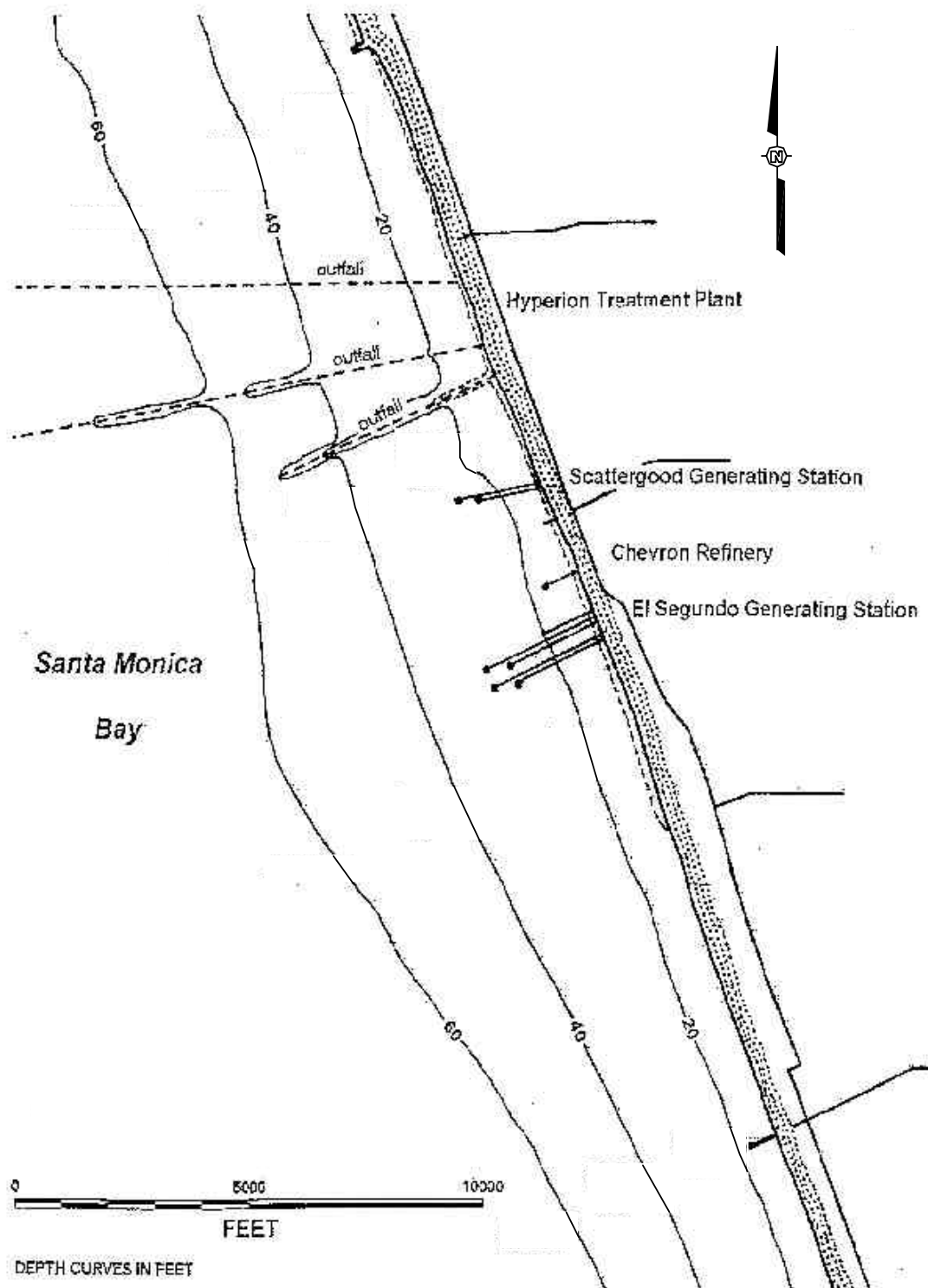
El Segundo Power, LLC

FIGURE 2

HAZARDOUS MATERIALS LOCATIONS  
301 VISTA DEL MAR BLVD.  
EL SEGUNDO, CALIFORNIA 90245

DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
J. VASQUEZ	08/37/04	--	1009724001-A3

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El Segundo Power, LLC

FIGURE 3  
EL SEGUNDO  
POWER GENERATING STATION MAP

301 VISTA DEL MAR BLVD.  
EL SEGUNDO, CALIFORNIA 90245

***Section 3.0***  
***EPA Form 2C and Attachment 1***



CAR000036848

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the effluent. Continue on additional sheets if necessary.

1. OUTFALL NUMBER (1-10)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT	
	OPERATION (1-10)	AVERAGE FLOW (gallons per day)	DESCRIPTION	USE CODE FROM TABLE 2
01	Condenser Cooling	207 MGD	Ocean Discharge	4-B
	Sanitary Treatment Wastes	0.001 MGD	Aerobic Digestion & Ocean Discharge	5-A
	Storm Drains	Negligible	Oil Removal & Ocean Discharge	1-H
	Units 1&2 Boiler Blowdown	0.013 MGD	Ocean Discharge	4-B
02	Condenser Cooling	398 MGD	Ocean Discharge	4-B
	Sanitary Treatment Wastes	0.001 MGD	Aerobic Digestion & Ocean Discharge	5-A
	Storm Drains	Negligible	Oil Removal & Ocean Discharge	1-H
	Units 1 & 2 Flare Drains	0.03 MGD	Retention & Ocean Discharge	4-B
	Units 3 & 4 Flare Drains	0.07 MGD	Oil Removal, Retention, & Ocean Discharge	1-H
	Units 3 & 4 Boiler Blowdown	0.013 MGD	Retention & Ocean Discharge	4-B
	Pipeside & Air Preheater Wash	0.6 MGD	Temporary Storage, Retention, & Ocean Discharge	4-B
	Units 1-4 Metal Chemical Cleaning Wastes	0.06 MGD	Temporary Storage, Line Precipitation, Retention & Ocean Discharge	4-B
	Fuel Pipeline Hydro-static Testing Water	0.8 MGD	Retention & Ocean Discharge	4-B
	Units 1 & 2 Condensers gtl pumps	0.015 MGD	Retention & Ocean Discharge	4-B
	Chemical Laboratory Drains	Negligible	Retention & Ocean Discharge	4-B
	Units 1& 2 Oil waste sump	0.045 MGD	Oil Removal, Retention, & Ocean Discharge	1-H
	Units 3 & 4 Oil waste sump	0.115 MGD	Oil Removal, Retention, & Ocean Discharge	1-H
	Units 3 & 4 Heat Exchanger	7.6 MGD	Ocean Discharge	4-B
	Desalination Pilot Plant	Negligible	Intake Conduit 2	1-13

CAR000036848

Units 1 & 2 Boiler Blowdown	3	8	0.01	0.14	13,000	145,000	0.08
Units 3&4 Boiler Blowdown*	1	12	0.01	0.23	13,000	230,000	0.04

Additional information regarding the discharge of pollutants from the facility is provided in the following sections of the permit application. The information is organized into sections based on the type of discharge and the location of the discharge point. The information is organized into sections based on the type of discharge and the location of the discharge point.

Additional information regarding the discharge of pollutants from the facility is provided in the following sections of the permit application. The information is organized into sections based on the type of discharge and the location of the discharge point. The information is organized into sections based on the type of discharge and the location of the discharge point.

Additional information regarding the discharge of pollutants from the facility is provided in the following sections of the permit application. The information is organized into sections based on the type of discharge and the location of the discharge point. The information is organized into sections based on the type of discharge and the location of the discharge point.

**\*Note:**  
Additional intermittent discharge operations for outfall 002:  
Units 1-4 Firoside & Air Preheater Washes at a long term flow rate average of 0.6 MGD and a long term average volume of 600,000 gallons. See Appendix A for further explanation.  
Units 1-4 Ketol Chemical Cleaning wastes at a long term flow rate average of 0.00MGD and a long term average volume of 60,000 gallons. See Appendix A for further explanation.  
Well Pipeline Hydro-Static Testing at a long term flow rate average of 0.8 MGD and a long term average and maximum volume of 800,000 gallons. See appendix A for further explanation.

CAH00D036848

[illegible]

**Type Insulation:** (The plant employs procedures to prevent the release of asbestos to the environment)

☐ *not a duplicate of another*
☒ *duplicate of another*

**II. ADDITIONAL INFORMATION**

1. Have you ever been cited for a violation of the permit conditions? ☒ Yes ☐ No

2. Have you ever been cited for a violation of the permit conditions? ☒ Yes ☐ No

3. Have you ever been cited for a violation of the permit conditions? ☒ Yes ☐ No

Quarterly Chronic Toxicity Tests (EPA-R 95/136) Tests were conducted in years 1997 through 2004 on receiving and effluent discharge water using alabone, monidia, and kelp species. TLC values ranged from 1 to 8.

**III. ANALYST INFORMATION**

1. Name of the analyst: ☒ Yes ☐ No

2. Name of the analyst: ☒ Yes ☐ No

al Science Environmental Laboratories, Inc.	7440 Lincoln Way Garden Grove CA 92641	(714) 895-5494	BOD, TSS, and Settleable Solids.
tuesdall Laboratories, Inc.	14201 Franklin Avenue Tustin CA 92780	(714) 730-6462	Fecal and Total Coliform. Enterococci.
CE Power Production Chemical Laboratory	7301 Fenwick Lane, 2nd Floor Westminster CA 92683	(714) 895-0525	Nitrate, Oil and Grease, pH, Residual Chlorine, and TSS
G Marine Laboratories	2020 Del Amo Blvd. Torrance CA 90501	(310) 571-5910	Priority Pollutants, [Fecal Coliform and total Coliform for 74-h composite sampling]
TLA	1721 South Grand Ave. Santa Ana CA 92705	(714) 758-8610	Cyanide, VOCs, and Ammonium Nitrate
nce Analytical Services, Inc.	P.O. Box 158 Madison PA 15663	(724) 722-5407	Radioactivity

**IV. SIGNATURES**

1. Signature of the applicant: \_\_\_\_\_

2. Signature of the permittee: \_\_\_\_\_

**A. NAME & OFFICIAL TITLE**  
NUDUN AABERG  
REGIONAL PLANT MANAGER

**B. PHONE NO. (area code & no.)**  
(310) 529-3257

**C. SIGNATURE** \_\_\_\_\_

**D. DATE SIGNED** \_\_\_\_\_

El Segundo Power, LLC  
is NRG El Segundo Operations, Inc.  
its Authorized agent

## VI. Intake and Effluent Characteristics

Pollutant	Outfall No. 001 (Units 1 & 2) Effluent				Units 1 & 2 Intake			
	Maximum Daily Value Conc	Maximum Daily Value Mass	Maximum 30 Day Value Conc	Maximum 30 Day Value Mass	No. of Analytes	Units	Long Term Avg Value Conc	Long Term Avg Value Mass
a. Biochemical Oxygen Demand	<1.0	<492			1	mg/L	<1.0	
b. Chemical Oxygen Demand	59	25,489			1	mg/L	59	
c. Total Organic Carbon	14	8,740			1	mg/L	14	
d. Total Suspended Solids	23.9	2,485			1	mg/L	23.9	
e. Ammonia (as N)	<0.1	<43.2			1	mg/L	<0.1	
f. Flow		Value = 207	Value = 103.00	Value = 90.27	365	MGD	Value = 20.27	365
g. Temperature (water)		Value = 84.2	Value = 84.2	Value = 84.1	365	Day - F	Value = 82.1	365
h. Temperature (air)		Value = 73.0	Value = 73.9	Value = 69.8	365	Day - F	Value = 69.8	365
i. pH	Min = 9.07	Max = 8.10	Min = NA	Max = NA	1	Standard Units	Min = 7.6	Max = 8.18

## VII. Intake and Effluent Characteristics

Pollutant	Outfall No. 002 (Units 3 & 4) Effluent				Units 3 & 4 Intake			
	Maximum Daily Value Conc	Maximum Daily Value Mass	Maximum 30 Day Value Conc	Maximum 30 Day Value Mass	No. of Analytes	Units	Long Term Avg Value Conc	Long Term Avg Value Mass
a. Biochemical Oxygen Demand	<1.0	<434			1	mg/L	<1.0	
b. Chemical Oxygen Demand	50	136,292			1	mg/L	56	
c. Total Organic Carbon	14	15,086			1	mg/L	5.8	
d. Total Suspended Solids	27.8	57,006			1	mg/L	20.1	
e. Ammonia (as N)	<0.1	<43			1	mg/L	<0.1	
f. Flow		Value = 392	Value = 209	Value = 338	365	MGD	Value = 392.28	365
g. Temperature (water)		Value = 77.9	Value = 77.9	Value = 72.4	365	Day - F	Value = 72.4	365
h. Temperature (air)		Value = 82.9	Value = 82.8	Value = 75.59	365	Day - F	Value = 75.59	365
i. pH	Min = 8.06	Max = 8.30	Min = NA	Max = NA	1	Standard Units	Min = 8.22	Max = 8.15

## Note

1) "f" indicates that the pollution characteristic was not detected. For these pollutants, the detection limit is reported in the concentration column. For the purpose of calculating mass emissions for this table, the detection limit was utilized as the concentration when the pollutant was not detected. Each concentration should not be used for the purpose of determining compliance with effluent limits.

2) Mass emissions were calculated using the flow during an actual sampling period. The actual flow during sampling period for units 1 & 2 was 51.6 MGD and for units 3 & 4 was 392 MGD prior to 12 noon on 191 MGD in the afternoon.

3) Maximum daily flow information is based on historical flow data (2000-2004). However, maximum 30-day and long term values are based upon daily discharge flows from January 1, 2004 to August 10, 2004.

4) Temperature information is based upon daily average temperatures for:

- Summer - June 1 to August 10, 2004
- Winter - January 1 to March 31, 2004

**EL SEGUNDO GENERATION STATION**  
**NPDES PERMIT (CA0001147) RENEWAL APPLICATION (9/20/04)**  
**EPA NPDES Application Form 2C - Section V, Part B**

EPA ID No. CDR 000035848

V. Intake and Effluent Characteristics										Quarter No. 001	
Pollutant	CAS No.	Mark X		Effluent No. 001 (Under 1 & 2) Effluent				Notes		Intake	
		Exceeded Percent	Ballasted Absent	Maximum Daily Value		Maximum 30 Day Value		Conc.	Mass	Conc.	Mass
				Conc.	Mass	Conc.	Mass				
1. BOD <sub>5</sub>	74502-67-3	X		53	22,897					40	20,737
2. Chemical Oxygen Demand		X		<0.20	13					<0.03	<13
3. Copper		X		<5	N/A					<5	N/A
4. Feed Grade		X		<20	N/A					<20	N/A
5. Fertilizer	10813-40-9	X		C 30	130					625	N/A
6. Heavy Metals (As, Cd, Cr, Hg, Pb, Se, V)		X		<1	<432					<1	<432
7. Nitrate-Nitrogen (as N)		X		<1	<432					<1	<432
8. Nitrogen, Total		X		<1	<432					<1	<432
9. Oil and Grease		X		<1	<432					<1	<432
10. Phosphorus, As <sub>2</sub> Total	4223-74-11	X		C 10	43					1.1	472
11. Polychlorinated Biphenyls (PCBs)		X		10.9	N/A					<0.4	N/A
12. Polychlorinated Biphenyls (PCBs)		X		8.9	N/A					<0.4	N/A
13. Polychlorinated Biphenyls (PCBs)		X		0.207	N/A					0.425	N/A
14. Polychlorinated Biphenyls (PCBs)		X		1.4	N/A					0.643	N/A
15. Sulfate (as S)	14808-79-8	X		2500	1,101,851					2550	1,101,851
16. Sulfate (as S)		X		<0.02	<9.6					1.6	<0.02
17. Sulfate (as S)		X		<1	<432					1.6	<1
18. Sulfate (as S)		X		C 15	63					3.4	62
19. Sulfate (as S)		X		21.4	9,273					10.4	4,493
20. Sulfate (as S)		X		<1	<432					<1	<432
21. Sulfate (as S)		X		5.17	2,234					5.1	2,208
22. Sulfate (as S)		X		0.045	19					0.035	14
23. Sulfate (as S)		X		12.2	5,314					9.42	4,038
24. Sulfate (as S)		X		1.80	801,134					1.90	814,084
25. Sulfate (as S)		X		5.75	4,158					0.05	4,219
26. Sulfate (as S)		X		1.55	653					1.35	573
27. Sulfate (as S)		X		3.23	53					<0.035	<12
28. Sulfate (as S)		X		1.3	545					1.03	445

1) "X" indicates that the pollutant concentration was not detected. For these pollutants, the detection limit is reported in the concentration column. For the purpose of calculating mass emissions for this permit, the detection limit was utilized as the concentration where the pollutant was not detected. Such a substitution should not be used for the purpose of determining compliance with effluent limits.

2) Mass emissions were calculated using the flow during the actual sampling period (i.e. June and composite samples - 51.8 MGd).

**EL SEGUNDO GENERATION STATION**  
**NPDES PERMIT (CA0001147) RENEWAL APPLICATION (9/20/04)**  
**EPA NPDES Application Form 2C - Section V, Part B**

EPA ID No. CA00036848

V. Inflow and Effluent Characteristics										Outfall No. 002	
Part B.											
Pollutant	CAS No.	Mark X		Outfall No. 002 (Units: J & J; Effluent)				Units		Long Term Avg Value	
				Maximum Daily Value	Maximum 30 Day Value	Long Term Avg Value	No. of Analytes				
		Detected	Believed Absent	Conc	Mass	Conc	Mass	Conc	Mass	Conc	Mass
2. Bio Tox	20030-00-0	X		<0.0	24,583			mg/L	kg	5.0	<2,882
3. Chlorine, Total Residual		X		<0.5				mg/L	kg	<0.10	279
4. Color		X		<5	N/A			color units	MA	<5	N/A
5. Total Carbon		X		<20	N/A			MPN/100 ml	MA	<20	N/A
6. Fecides	15084-48-9	X		0.31	273			mg/L	kg	0.32	756
7. Nitrogen, Ammoniacal		X		<1	2,494			mg/L	kg	<1	<2,404
8. Nitrogen, Nitrate		X		<1	2,417			mg/L	kg	<1	1,381
9. Nitrogen, Nitrite		X		<1	2,417			mg/L	kg	<1	1,381
10. Nitrogen, Total		X		<1	2,417			mg/L	kg	<1	1,381
11. Orthophosphate	7723-14-0	X		0.4	2,210			mg/L	kg	<0.1	2,259
12. Total Phosphate		X		0.4	N/A			mg/L	kg	<0.1	2,259
13. Total Suspended Solids		X		58.8	N/A			mg/L	kg	<0.1	2,259
14. Total Dissolved Solids		X		0.324	N/A			mg/L	kg	<0.1	2,259
15. Total Solids		X		2,586	0,453,980			mg/L	kg	2,586	0,441,224
16. Sulfate	7446-09-0	X		<50	<50			mg/L	kg	<50	<50
17. Sulfide	7446-09-0	X		<1	<0.491			mg/L	kg	<1	<0.494
18. Sulfur Dioxide	7446-09-0	X		0.14	349			mg/L	kg	0.15	324
19. Aluminum	7440-05-0	X		12.3	30,672			mg/L	kg	0.70	21,494
20. Iron	7440-05-0	X		5.17	12,852			mg/L	kg	5.11	12,743
21. Copper	7440-05-0	X		0.381	958			mg/L	kg	0.253	137
22. Zinc	7440-05-0	X		10.2	25,430			mg/L	kg	1.1	2,188
23. Magnesium	7440-05-0	X		1.00	2,462,046			mg/L	kg	1.00	2,462,046
24. Manganese	7440-05-0	X		0.81	24,451			mg/L	kg	1.0	2,188
25. Vanadium	7440-05-0	X		2.03	5,052			mg/L	kg	1.0	2,188
26. Tin	7440-05-0	X		0.004	12			mg/L	kg	0.009	22
27. Barium	7440-05-0	X		0.050	2,474			mg/L	kg	0.009	2,203

Note:  
 If "X" indicates that the pollutant concentration was not detected. For these pollutants, the detection limit is reported in the concentration column. For the purpose of calculating mass emissions for this table, the detection limit was utilized as the lowest figure when the pollutant was not detected. Such information is not to be used for the purpose of determining compliance with effluent limits.

21. Major anions were calculated using the flow during the actual sampling period (i.e. grab samples prior to 12 noon 099 M30 and after 12 noon 099 M30).  
 composite samples - 259 M30.

EL SEGUNDO GENERATION STATION  
NPDES PERMIT (CA0001147) RENEWAL APPLICATION (02/01/04)  
EPA NPDES Application Form 20 - Section V, Part C

EPA ID No. CA700036-04A

EPA 1010-ND-CAN-0000000000	CAS No.	Toxicity Required	Analyte Required	Reference Standard	Element	Maximum Daily Value Conc	Maximum 30 Day Value Conc	Long Term Avg Value Conc	Units	Analyte	MLO of Analysis											
EPA 1010-ND-CAN-0000000000																						
Benzene, Toluene, and Xylene Compounds																						
7440-38-2	X	X			0.15	0.562			mg	0.11	0.54H											
7440-39-3	X	X			1.05	0.031			mg	1.05	0.54H											
7440-41-7	X	X			<0.001	<0.001			mg	0.001	0.54H											
7440-43-5	X	X			0.001	0.001			mg	0.001	0.54H											
7440-47-5	X	X			0.15	0.562			mg	0.11	0.54H											
7440-50-6	X	X			2.00	1.162			mg	0.15	0.54H											
7440-52-4	X	X			0.10	0.375			mg	0.10	0.54H											
7440-53-5	X	X			0.001	0.001			mg	0.001	0.54H											
7440-55-3	X	X			0.001	0.001			mg	0.001	0.54H											
7440-57-1	X	X			0.001	0.001			mg	0.001	0.54H											
7440-59-9	X	X			0.001	0.001			mg	0.001	0.54H											
7440-61-7	X	X			0.001	0.001			mg	0.001	0.54H											
7440-63-5	X	X			0.001	0.001			mg	0.001	0.54H											
7440-65-3	X	X			0.001	0.001			mg	0.001	0.54H											
7440-67-1	X	X			0.001	0.001			mg	0.001	0.54H											
7440-69-9	X	X			0.001	0.001			mg	0.001	0.54H											
7440-71-7	X	X			0.001	0.001			mg	0.001	0.54H											
7440-73-5	X	X			0.001	0.001			mg	0.001	0.54H											
7440-75-3	X	X			0.001	0.001			mg	0.001	0.54H											
7440-77-1	X	X			0.001	0.001			mg	0.001	0.54H											
7440-79-9	X	X			0.001	0.001			mg	0.001	0.54H											
7440-81-7	X	X			0.001	0.001			mg	0.001	0.54H											
7440-83-5	X	X			0.001	0.001			mg	0.001	0.54H											
7440-85-3	X	X			0.001	0.001			mg	0.001	0.54H											
7440-87-1	X	X			0.001	0.001			mg	0.001	0.54H											
7440-89-9	X	X			0.001	0.001			mg	0.001	0.54H											
7440-91-7	X	X			0.001	0.001			mg	0.001	0.54H											
7440-93-5	X	X			0.001	0.001			mg	0.001	0.54H											
7440-95-3	X	X			0.001	0.001			mg	0.001	0.54H											
7440-97-1	X	X			0.001	0.001			mg	0.001	0.54H											
7440-99-9	X	X			0.001	0.001			mg	0.001	0.54H											
7441-01-7	X	X			0.001	0.001			mg	0.001	0.54H											
7441-03-5	X	X			0.001	0.001			mg	0.001	0.54H											
7441-05-3	X	X			0.001	0.001			mg	0.001	0.54H											
7441-07-1	X	X			0.001	0.001			mg	0.001	0.54H											
7441-09-9	X	X			0.001	0.001			mg	0.001	0.54H											
7441-11-7	X	X			0.001	0.001			mg	0.001	0.54H											
7441-13-5	X	X			0.001	0.001			mg	0.001	0.54H											
7441-15-3	X	X			0.001	0.001			mg	0.001	0.54H											
7441-17-1	X	X			0.001	0.001			mg	0.001	0.54H											
7441-19-9	X	X			0.001	0.001			mg	0.001	0.54H											
7441-21-7	X	X			0.001	0.001			mg	0.001	0.54H											
7441-23-5	X	X			0.001	0.001			mg	0.001	0.54H											
7441-25-3	X	X			0.001	0.001			mg	0.001	0.54H											
7441-27-1	X	X			0.001	0.001			mg	0.001	0.54H											
7441-29-9	X	X			0.001	0.001			mg	0.001	0.54H											
7441-31-7	X	X			0.001	0.001			mg	0.001	0.54H											
7441-33-5	X	X			0.001	0.001			mg	0.001	0.54H											
7441-35-3	X	X			0.001	0.001			mg	0.001	0.54H											
7441-37-1	X	X			0.001	0.001			mg	0.001	0.54H											
7441-39-9	X	X			0.001	0.001			mg	0.001	0.54H											
7441-41-7	X	X			0.001	0.001			mg	0.001	0.54H											
7441-43-5	X	X			0.001	0.001			mg	0.001	0.54H											
7441-45-3	X	X			0.001	0.001			mg	0.001	0.54H											
7441-47-1	X	X			0.001	0.001			mg	0.001	0.54H											
7441-49-9	X	X			0.001	0.001			mg	0.001	0.54H											
7441-51-7	X	X			0.001	0.001			mg	0.001	0.54H											
7441-53-5	X	X			0.001	0.001			mg	0.001	0.54H											
7441-55-3	X	X			0.001	0.001			mg	0.001	0.54H											
7441-57-1	X	X			0.001	0.001			mg	0.001	0.54H											
7441-59-9	X	X			0.001	0.001			mg	0.001	0.54H											
7441-61-7	X	X			0.001	0.001			mg	0.001	0.54H											
7441-63-5	X	X			0.001	0.001			mg	0.001	0.54H											
7441-65-3	X	X			0.001	0.001			mg	0.001	0.54H											
7441-67-1	X	X			0.001	0.001			mg	0.001	0.54H											
7441-69-9	X	X			0.001	0.001			mg	0.001	0.54H											
7441-71-7	X	X			0.001	0.001			mg	0.001	0.54H											
7441-73-5	X	X			0.001	0.001			mg	0.001	0.54H											
7441-75-3	X	X			0.001	0.001			mg	0.001	0.54H											
7441-77-1	X	X			0.001	0.001			mg	0.001	0.54H											
7441-79-9	X	X			0.001	0.001			mg	0.001	0.54H											
7441-81-7	X	X			0.001	0.001			mg	0.001	0.54H											
7441-83-5	X	X			0.001	0.001			mg	0.001	0.54H											
7441-85-3	X	X			0.001	0.001			mg	0.001	0.54H											
7441-87-1	X	X			0.001	0.001			mg	0.001	0.54H											
7441-89-9	X	X			0.001	0.001			mg	0.001	0.54H											
7441-91-7	X	X			0.001	0.001			mg	0.001	0.54H											
7441-93-5	X	X			0.001	0.001			mg	0.001	0.54H											
7441-95-3	X	X			0.001	0.001			mg	0.001	0.54H											
7441-97-1	X	X			0.001	0.001			mg	0.001	0.54H											
7441-99-9	X	X			0.001	0.001			mg	0.001	0.54H											
7442-01-7	X	X			0.001	0.001			mg	0.001	0.54H											
7442-03-5	X	X			0.001	0.001			mg	0.001	0.54H											
7442-05-3	X	X			0.001	0.001			mg	0.001	0.54H											
7442-07-1	X	X			0.001	0.001			mg	0.001	0.54H											
7442-09-9	X	X			0.001	0.001			mg	0.001	0.54H											
7442-11-7	X	X			0.001	0.001			mg	0.001	0.54H											
7442-13-5	X	X			0.001	0.001			mg	0.001	0.54H											
7442-15-3	X	X			0.001	0.001			mg	0.001	0.54H											
7442-17-1	X	X			0.001	0.001			mg	0.001	0.54H											
7442-19-9	X	X			0.001	0.001			mg	0.001	0.54H											
7442-21-7	X	X			0.001	0.001			mg	0.001	0.54H											
7442-23-5	X	X			0.001	0.001			mg	0.001	0.54H											
7442-25-3	X	X			0.001	0.001			mg	0.001	0.54H											
7442-27-1	X	X			0.001	0.001			mg	0.001	0.54H											
7442-29-9	X	X			0.001	0.001			mg	0.001	0.54H											
7442-31-7	X	X			0.001	0.001			mg	0.001	0.54H											
7442-33-5	X	X			0.001	0.001			mg	0.001	0.54H											
7442-35-3	X	X			0.001	0.001			mg	0.001	0.54H											
7442-37-1	X	X			0.001	0.001			mg	0.001	0.54H											
7442-39-9	X	X			0.001	0.001			mg	0.001	0.54H											
7442-41-7	X	X			0.001	0.001			mg	0.001	0.54H											
7442-43-5	X	X			0.001	0.001			mg	0.001	0.54H											
7442-45-3	X	X			0.001	0.001			mg	0.001	0.54H											
7442-47-1	X	X			0.001	0.001			mg	0.001	0.54H											
7442-49-9	X	X			0.001	0.001			mg	0.001	0.54H											
7442-51-7	X	X			0.001	0.001			mg	0.001	0.54H											
7442-53-5	X	X			0.001	0.001			mg	0.001	0.54H											
7442-55-3	X	X			0.001	0.001			mg	0.001	0.54H											
7442-57-1	X	X			0.001	0.001			mg	0.001	0.54H											
7442-59-9	X	X			0.001	0.001			mg	0.001	0.54H											
7442-61-7	X	X			0.001	0.001			mg	0.001	0.54H											
7442-63-5	X	X			0.001	0.001			mg	0.001	0.54H											
7442-65-3	X	X			0.001	0.001			mg	0.001	0.54H											
7442-67-1	X	X			0.001	0.001			mg	0.001	0.54H											
7442-69-9	X	X			0.001	0.001			mg	0.001	0.54H											
7442-71-7	X	X			0.001	0.001			mg	0.001	0.54H											
7442-73-5	X	X			0.001	0.001			mg	0.001	0.54H											
7442-75-3	X	X			0.001	0.001			mg	0.001	0.54H											
7442-77-1	X	X			0.001	0.001			mg	0.001	0.54H											
7442-79-9	X	X			0.001	0.001			mg	0.001	0.54H											
7442-81-7	X	X			0.001	0.001			mg	0.001	0.54H											
7442-83-5	X	X			0.001	0.001			mg	0.001	0.54H											
7442-85-3	X	X			0.001	0.001			mg	0.001	0.54H											
7442-87-1	X	X			0.001	0.001			mg	0.001	0.54H											
7442-89-9	X	X			0.001	0.001			mg	0.001	0.54H											
7442-91-7	X	X			0.001	0.001			mg	0.001	0.54H											
7442-93-5	X	X			0.001	0.001			mg	0.001	0.54H											
7442-95-3	X	X			0.001	0.001			mg	0.001	0.54H											



EL SEGUNDO GENERATION STATION  
NPDES PERMIT (CA0001147) RENEWAL APPLICATION (3/20/04)  
EPA NPDES Application Form 330 - Section V, Part C

[illegible]

i) It indicates that the relevant source matter was not detected. For those substances, the detection limit is reported in the concentration column. The five parameters are given as percentages of the table; the criterion for the value as the concentration, where the pollutant was not detectable. Such detection limit will not be used for the purpose of determining compliance with other limits.

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1. **Introduction**

**EL SEGUNDO GENERATION STATION**  
**NPDES PERMIT (CA0000147) RENEWAL APPLICATION (9/30/04)**  
**EPA NPDES Application Form 20 - Section V, Part C**

EPA ID No. CA9 0000364-3

N, Metals and Effluent Characteristics													Detail No. 092	
Part C:														
Pollutant	CAS No.	Totaling Required	Mark X		Maximum 30 Day Value	Effluent		Long Term Avg Value	No. of Analytical	Units		Long Term Avg Value	No. of Analytical	
			Be Heeded Present	Be Heeded Absent		Conc	Mass			Conc	Mass			
Metals, Cyanides, and Total Phosphorus														
Total Arsenic	7440-39-2	X			0.11	0.26				ug/l	lbs	0.12	0.30	
Total Cadmium	7440-39-2	X			1.54	9.84				ug/l	lbs	1.50	4.12	
Total Chromium	7440-15-7	X			<0.005	<0.01				ug/l	lbs	<0.005	0.01	
Total Copper	7440-43-4	X			0.027	0.07				ug/l	lbs	0.026	0.07	
Total Chlorine	7440-42-2	X			0.04	0.01				ug/l	lbs	0.03	1.51	
Total Cyanide	7440-50-8	X			1.25	3.12				ug/l	lbs	1.1	2.77	
Total Lead	7439-92-1	X			1.14	2.84				ug/l	lbs	0.55	0.98	
Total Mercury	7439-97-9	X			<0.005	<0.01				ug/l	lbs	0.005	0.01	
Total Molybdenum	7440-35-6	X			0.05	1.38				ug/l	lbs	0.05	1.38	
Total Nickel	7440-02-2	X			0.02	0.06				ug/l	lbs	0.02	0.06	
Total Silver	7440-22-4	X			<0.004	<0.01				ug/l	lbs	<0.005	<0.01	
Total Thallium	7440-28-2	X			0.002	0.02				ug/l	lbs	0.002	0.02	
Total Zinc	7440-66-6	X			82.4	83.79				ug/l	lbs	3.76	9.38	
Total Cadium	81-12-5	X			<0.05	<0.12				ug/l	lbs	<0.05	<0.12	
Total Phosphorus		X			<0.10	<0.25				ug/l	lbs	<0.10	<0.25	
Fluoride		X			<1.2	<1.00				ug/l	lbs	<1.2	<1.00	
ORGANIC Fraction - Volatile Compounds														
1,1,1-trichloroethane	107-66-3	X			<12	<28.0				ug/l	lbs	<12	<28.0	
1,1,2-trichloroethane	107-67-1	X			<10	<24.84				ug/l	lbs	<10	<24.84	
1,1,2,2-tetrachloroethane	79-34-7	X			<0.5	<0.75				ug/l	lbs	<0.5	<0.75	
1,1,2,2,3-pentachloroethane	542-88-1	X			<1.0	<1.42				ug/l	lbs	<1.0	<1.42	
1,1,2,2,3,3-hexachloroethane	75-29-2	X			<0.5	<0.75				ug/l	lbs	<0.5	<0.75	
1,1,2,2,3,3,4-heptachloroethane	542-88-1	X			<0.5	<0.75				ug/l	lbs	<0.5	<0.75	
1,1,2,2,3,3,4,4-octachloroethane	118-30-7	X			<0.5	<0.75				ug/l	lbs	<0.5	<0.75	
1,1,2,2,3,3,4,4,5-nonafluorooctane	124-01-1	X			<0.4	<0.997				ug/l	lbs	<0.4	<0.997	
1,1,2,2,3,3,4,4,5,5-perfluorooctane	15-00-3	X			<0.5	<0.75				ug/l	lbs	<0.5	<0.75	
1,1,2,2,3,3,4,4,5,5,6-perfluorooctane	110-75-2	X			<0.5	<0.99				ug/l	lbs	<0.5	<0.99	
1,1,2,2,3,3,4,4,5,5,6,6-perfluorooctane	67-68-9	X			<0.5	<0.75				ug/l	lbs	<0.5	<0.75	
1,1,2,2,3,3,4,4,5,5,6,6,7-perfluorooctane	75-27-4	X			<0.5	<0.75				ug/l	lbs	<0.5	<0.75	
1,1,2,2,3,3,4,4,5,5,6,6,7,7-perfluorooctane	75-71-6	X			<0.4	<0.997				ug/l	lbs	<0.4	<0.997	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8-perfluorooctane	15-01-1	X			<0.5	<0.997				ug/l	lbs	<0.5	<0.997	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-perfluorooctane	107-66-2	X			<0.4	<0.997				ug/l	lbs	<0.4	<0.997	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9-perfluorooctane	75-35-4	X			<0.5	<0.75				ug/l	lbs	<0.5	<0.75	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-perfluorooctane	78-07-5	X			<0.5	<0.75				ug/l	lbs	<0.5	<0.75	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10-perfluorooctane	542-88-2	X			<0.5	<0.75				ug/l	lbs	<0.5	<0.75	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-perfluorooctane	118-31-4	X			<0.5	<0.997				ug/l	lbs	<0.5	<0.997	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-perfluorooctane	74-82-9	X			<1.0	<2.46				ug/l	lbs	<1.0	<2.46	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10,10-perfluorooctane	74-82-9	X			<1.0	<2.46				ug/l	lbs	<1.0	<2.46	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10,10,10-perfluorooctane	75-00-2	X			<0.5	<0.75				ug/l	lbs	<0.5	<0.75	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10,10,10,10-perfluorooctane	75-34-5	X			<0.5	<0.75				ug/l	lbs	<0.5	<0.75	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10,10,10,10,10-perfluorooctane	127-10-4	X			<0.4	<0.997				ug/l	lbs	<0.4	<0.997	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10,10,10,10,10,10-perfluorooctane	100-00-0	X			<0.4	<0.75				ug/l	lbs	<0.4	<0.75	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10,10,10,10,10,10,10-perfluorooctane	158-30-3	X			<0.5	<0.75				ug/l	lbs	<0.5	<0.75	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10,10,10,10,10,10,10,10-perfluorooctane	71-50-5	X			<0.5	<0.75				ug/l	lbs	<0.5	<0.75	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10,10,10,10,10,10,10,10,10-perfluorooctane	60-00-5	X			<0.5	<0.75				ug/l	lbs	<0.5	<0.75	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10,10,10,10,10,10,10,10,10,10-perfluorooctane	75-01-6	X			<0.5	<0.75				ug/l	lbs	<0.5	<0.75	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10,10,10,10,10,10,10,10,10,10,10-perfluorooctane	75-08-1	X			<0.5	<0.75				ug/l	lbs	<0.5	<0.75	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10,10,10,10,10,10,10,10,10,10,10,10-perfluorooctane	75-01-4	X			<0.5	<0.75				ug/l	lbs	<0.5	<0.75	

8725 ID No. C-18 DOCUMENT

Dr. Intobka now is in the United States.



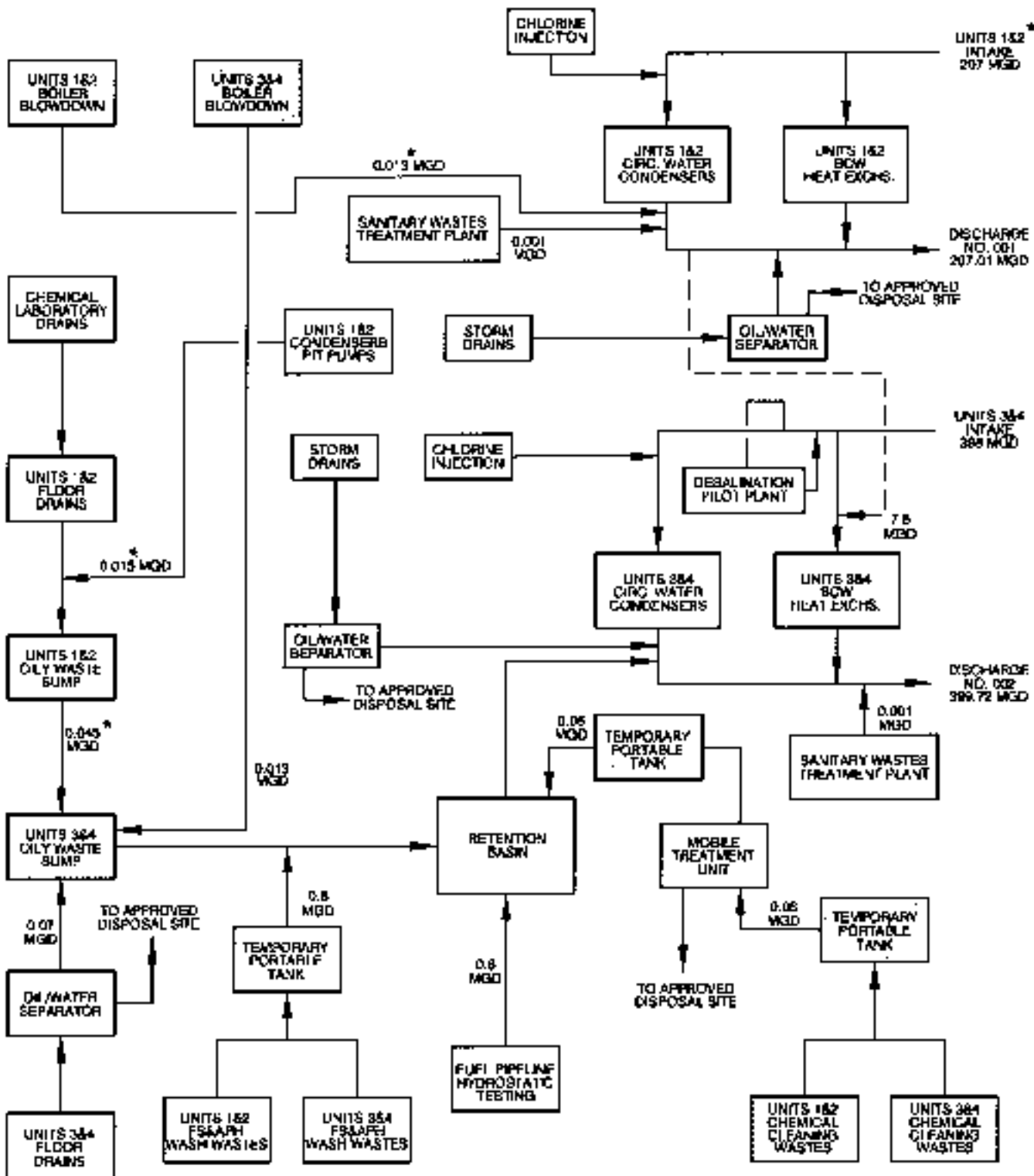
## APPENDIX A

Further explanation of Item II C.

<u>Outfall No.</u>	<u>Operation Contributing Flow</u>	<u>Remarks</u>
001	Units 1&2 Boiler Blowdown	This operation is necessary to control the build-up of solids in the steam cycle. Units 1&2 boiler blowdown is discharged approximately 3 times per week when the units are running, which is approximately 8 months of the year. The duration of the blowdown is approximately one hour per unit.
002	Units 3&4 Boiler Blowdown	This operation is necessary to control the build-up of solids in the steam cycle. Units 3&4 boiler blowdown is discharged approximately once per week when the units are running, which is all year. The duration of the blowdown is approximately one hour per unit.
002	Units 1-4 Fireside and Air Preheater Washes	These operations last approximately sixteen hours, and are usually done concurrently one unit at a time, about four times per year. At this time, the facility is not performing these operations, but plans to do so in the future.
002	Units 1-4 Metal Chemical Cleaning Wastes	These operations occur approximately once every two years per unit. The duration of the discharge is approximately thirty-six to forty-eight hours.
002	Fuel Pipeline Hydro-Static Testing Water	This operation occurs infrequently and lasts for approximately four hours.

\*Note: Fuel Pipeline Hydro-Static Testing Water is a waste generated by Southern California Edison on the site.

DRAWING NUMBER: 1009724001-A4  
 APPROVED BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 DRAINED BY: J. LARSEN 08/13/04  
 Project: El Segundo Power Plant (1009724001) (1009724001) A-4.dwg  
 Date: 07/27/2010



**NOTES:**

[Solid Line] INTERMITTENT FLOWS  
 [Dashed Line] INTERMITTENT FLOWS

\* BASED ON CURRENT PERMIT MAXIMUM FLOW RATES

El Segundo Power, LLC

**SCHEMATIC OF WATER FLOW**

301 VISTA DEL MAR BLVD.  
 EL SEGUNDO, CALIFORNIA 90245

***Section 4.0***  
***EPA Form 2C***  
***Appendix A***

***EPA Form 2C***  
***Plant & Operations Description***

**NPDES PERMIT RENEWAL APPLICATION**  
***NPDES NO. CA0001147***  
***Facility Operation Description***  
***for the El Segundo Power LLC,***  
***El Segundo Generating Station, Los Angeles County***

## ***1.0 Facility Description***

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The El Segundo Power LLC, El Segundo Generating Station is located at 301 Vista Del Mar Boulevard, in the City of El Segundo, California, adjacent to the Santa Monica bay on the Pacific Ocean.

The El Segundo Generating Station has been owned by El Segundo Power LLC since April 1998. NRG El Segundo Operations Inc. has operated El Segundo Generating Station since April 2000. The power plant was previously owned by Southern California Edison (SCE).

The El Segundo Generating Station (El Segundo) consists of four steam electric generating units (Units 1 through 4) with a design capacity of 1,020 megawatts. The Plant discharges up to 607 million gallons per day (MGD) of wastes consisting of once-through cooling water, pretreated chemical metal cleaning wastes, stormwater, non-chemical metal cleaning wastes, low volume inplant wastes, and treated sanitary wastes into the Pacific Ocean (Santa Monica Bay), a water of the United States.

An application for a permit to replace Units 1 and 2 with new generating units is pending approval by the California Energy Commission. Though this application was filed in December of 2000 and accepted as adequate February of 2001, the “12 month” permit process is still being completed more than three and half years later. Though the air permit for the operation of Units 1 and 2 was allowed to expire as of January 1, 2003, the cooling system that supports intake #1 has not been removed from service. Likewise, Units 1 and 2 are still present and capable of operation. A final decision approving the project is expected later in 2004.

Until an acceptable permit is obtained and the new units are constructed, Units 1 and 2 remain as potential future electricity generation sources. The units may be removed in the near timeframe, however, to make way for new units 5, 6, and 7. Fortunately, the proposed repowering will not alter the parameters of intake system #1 and will, if anything, reduce the quantity of heat discharged through outfall #1. The new project will not change the character of the plant as “existing facility” and thus this NPDES permit application is not affected by the proposed repowering of units 1 and 2 and the new units will be able to operate without application for a new NPDES permit for a new source. Section 9 of this document contains a letter from the Los Angeles Regional Water Quality Control Board (Regional Board) regarding the El Segundo Power redevelopment project and ability to re-power under the existing NPDES permit (Regional Board letter, May 14, 2001).

This permit application utilizes the values, parameters, and characteristics for the existing Units 1 and 2. If and when Units 1 and 2 are replaced, El Segundo Power, LLC will apply to the Board for administrative changes to the then-in-effect NPDES permit to correctly identify the new units and their operation.

The El Segundo Generating Station wastes are discharged through two outfalls, Discharge Serial Nos. 001 and 002, described as follows:

- a. Discharge Serial No. 001: Latitude: 33° 54' 30"  
(Units 1 and 2) Longitude: -118° 25' 50"

Discharge Serial No. 001 consists of one conduit, approximately 2,600 feet long that terminates at a depth of 20 feet Mean Lower Low Water (MLLW).

- b. Discharge Serial No. 002: Latitude: 33° 54' 27"  
(Units 3 and 4) Longitude: -118° 25' 50"

Discharge Serial No. 002 consists of one conduit that extends approximately 2,600 feet long that terminates at a depth of 20 feet MLLW.

The cooling water intake structure consists of two conduits (Nos. 003 and 004), each providing cooling water for two generating units and extends about 2,100 feet offshore drawing water from a depth of 20 feet MLLW.

Marine fouling of the cooling water conduits (intake and discharge) is controlled by temporarily recirculating (thus increasing the temperature) and reversing the flow of the once-through cooling water alternately in each offshore conduit (i.e., the discharge point becomes the intake point, and the intake point becomes the discharge point). This procedure (referred to as "heat treatment") is typically conducted every six (6) weeks and lasts for about six hours per conduit with the highest temperature lasting for one hour during gate adjustment. During the heat treatment, the temperature of the water discharged through the intake conduit must be raised to 105°F for one hour to remove the fouling organisms. The discharge limit of the effluent is 125°F. During gate adjustments, the discharge temperature is allowed limited to reach 135°F for no more than 30 minutes. Gate adjustments control the temperature of the water recirculated in the intake and discharge points during heat treatment. As a result of heat treatments, calcareous shell debris accumulates in the intake structure. This shell debris is physically removed and disposed in the Ocean as required.

The chemical metal cleaning wastes from all the units are collected in portable storage tanks and treated to remove metals through a contractor-owned mobile lime treatment unit. The contractor maintains a tiered treatment unit (TTU) permit from the Department of Toxic Substances Control that allows for treatment of hazardous wastes on-site. The chemical metal cleaning operations occur approximately once every five years per generating Unit and discharge occurs after the metal cleaning wastes have been treated. The duration of discharge is normally approximately thirty-six to forty-eight hours per generating unit. The treated metal cleaning wastes and other low volume wastes are stored in temporary tanks before the wastes are decanted to the retention basin prior to discharge to the Pacific Ocean through Discharge Serial No. 002. Non-metal cleaning from boiler washes and air pre-heater washes are also stored in temporary tanks before the wastes are decanted to the retention basin.

Floor drain wastes are passed through oil water separators before going to the retention basin. Wastes from the retention basin are commingled with Discharge Serial No. 002.

Storm water runoff is passed through oil/water separators before combining with the cooling water and treated sanitary wastes prior to discharge to the Pacific Ocean through Discharge Serial Nos. 001 and 002. However, stormwater runoff from upslope of the facility flows into an easement conveyance then to the beach without commingling with the industrial activity associated run-off.

Sanitary wastes are treated in two aerobic digestion treatment package units (Wastewater Treatment Plant Nos. 1 and 2) prior to discharge through Discharge Serial Nos. 001 and 002, respectively.

Residues in the basins, pretreatment wastes, and oil sludges from oil/water separators are periodically hauled away to legal disposal sites.

To control biological growths (defouling), the condenser tubes (arranged in two banks per generating unit, each bank is called condenser half) are treated by intermittently and mechanically injecting chlorine (in the form of sodium hypochlorite), for a maximum of two (2) hours per generating unit per day, into the cooling water stream.

A water flow diagram is identified as “Schematic of Water Flow” within Attachment 1 to EPA Form 2C. This figure shows maximum flowrate of each waste stream.

## 2.0 Discharge Description

The El Segundo Generating Station has the following wastewater discharges to the ocean:

- a. Once-Through (Non-contact) Cooling Water
- b. Low Volume Wastes
- c. Secondary Treated Sanitary Wastes

The wastewater discharge flow summary of the El Segundo Generating Station is provided in Table 1 below:

**TABLE 1**  
**Outfalls and Nature of Wastes Discharged**

Discharge Serial No.		001	002
Generating Units Served		1 & 2	3 & 4
Diameter		10 feet	11 feet
Distance Offshore (feet)		2,600	2,600
Depth of Terminus, (feet below Mean Lower Low Water)		20	20
Latitude		33° 54' 30"	33° 54' 27"
Longitude		-118° 25' 50"	-118° 25' 50"
Maximum Temperature, (°F)	Winter (October to April)	79	86
	Summer (May to September)	88	100
	Heat Treatment/Gate Adjustment	125/135	125/135
Waste Streams (maximum volume, MGD)	Once-through Cooling Water	207.00	398.00
	Chemical Metal Cleaning Wastes <sup>[1]</sup> (Units 1 to 4)		0.06
	Low Volume Wastes <sup>[1]</sup>		
	• Floor Drain Wastes		0.115
	• Boiler Blowdown	0.013 (Units 1 & 2)	0.013 (Units 3&4)
	• Fireside and Air Preheater Wastes		0.6
	• Fuel Pipeline Hydrostatic Test Water		0.8
	• Condenser Sump		0.015
	• Storm Water Runoff	Negligible	Negligible
	• Chemical Laboratory Drains		Negligible
	Secondary Treated Sanitary Wastes	0.001 (Plant 1)	0.001 (Plant 2)
	Units 3 & 4 Heat Exchangers		7.6 <sup>[2]</sup>
	Desalination Pilot Plant		Negligible <sup>[3]</sup>
Total Maximum Flow, MGD		207.01	399.59

[1] These flows are intermittent.

[2] For Intake and Outfall detail refer to Section 3, Attachment 1-Schematic of Water Flow.

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[3] The existing and expected desalination pilot plant net flow flux is zero based on a loop pipeline configuration to and from intake conduit 2.

### ***3.0 DESCRIPTION OF DESALINATION PILOT PLANT***

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In May of 2002, the California Regional Water Quality Control Board, Los Angeles Region, approved the installation and operation of the seawater desalination pilot plant as proposed by West Basin Municipal Water District (West Basin). The existing NPDES permit has allowances for seawater desalination. In May 2002, West Basin initiated seawater desalination operations and testing in accordance with the conditions set forth by the Regional Board in a letter dated May 16, 2002.

The Regional Board approved the use of 30 gallons per minute (gpm) (.043 MGD) of seawater from the cooling water intake to microfiltration and reverse osmosis units. The seawater is separated into two components; pure water and waste brine. Each of the separated streams constitutes 50% of the intake flow (15 gpm of pure water and 15 gpm of brine). The brine and reverse osmosis permeate is returned into the power plant's cooling water intake. Chemicals such as sodium hypochlorite, ammonium hypochlorite, and antiscalant are added to the influent water to enhance the removal efficiency of dissolved solids during desalination. The total amount of chemicals added have very little impact to the cooling water flow and the Desalination Pilot Plant operation does not constitute a material change to the power plant's outfall. Therefore, in accordance with the letter set forth by the Regional Board dated May 16, 2002, the NPDES permit did not need to be reopened and a separate NPDES permit was not required for the Desalination Pilot Plant.

In addition to the Desalination Pilot Plant, a pipe loop corrosion study associated with the seawater from the Desalination Pilot Plant was approved by the Regional Board on April 12, 2004. In accordance with the conditions set forth by the Regional Board, this study is designed to evaluate the effects of reverse osmosis (RO) treated seawater on typical household plumbing materials (copper, galvanized steel and brass) and to demonstrate that seawater-derived potable water is stable, non-corrosive, and does not present any health risks.

Three blends of water are tested:

- 100% stabilized RO permeate
- 50% stabilized RO permeate and 50% Metropolitan Water District (MWD) drinking water
- 100% MWD water

Each water source and metal type is tested in triplicate which results in 27 pipe loops, each with an approximate volume of one liter of water. The pipe loops are designed to take pre-treated water from the existing micro-filtration (MF) pilot plant; therefore requiring no additional pumping of raw seawater. In addition, the second RO pilot plant is sized so that it produces enough water to supply the pipe loops. The pipe loops operate on a cycle intended to simulate household flow patterns with the water stagnated in the pipes for 23 hours and flowing at 1 gallon per minute (gpm) for 1 hour. Due to the lack of enough water supply by the MF and RO units for simultaneous operation of all the pipe loops, the maximum flow rate and discharge from the pipe loops is approximately 9 gpm with staggered operation of the individual pipe loops.

The total flow from the study is approximately 1,620 gallons per day. Since low concentrations of metals will be observed in the pipe loop discharge, the water is sent to the retention basin at the El Segundo Generating Station prior to being discharged with the cooling water. However, the RO permeate is conditioned to mitigate metal release and produce water that is suitable for potable use.

The quantity of loop study water discharged is relatively small (the minimum condenser coolant flow is approximately 100 million gallons per day, contributing 0.000162%) and the leachate containing regulated metals, has negligible to undetectable contribution to the metals discharge of the power plant. Accordingly, the Regional Board approved the study and determined that the operation will not constitute a material change for the NPDES permit issued to El Segundo Generating Station (letter dated April 12, 2004). Permission has been granted by the Regional Board to conduct the study for a period of one year (expiration date: May 31, 2005).

Furthermore, in addition to the above study, on August 6, 2004, West Basin submitted a request to the Regional Board to continue desalination pilot operation at the El Segundo Generating Station on warm water from the power plant's effluent water (Conduit 2) rather than the current intake water source. The purpose of this request was to evaluate the expected energy savings and equipment footprint reduction from operation on warm water. A second pre-treatment unit employing ultra-filtration, requiring an increased intake flow rate of up to 80 gpm, was also proposed to be brought on site for comparison to the microfiltration technology. All of these study parameters are estimated to extend through December 2006; therefore, per this letter, West Basin requested the Regional Board's permission to operate with the additional flow needs in the requested time extension.

#### ***4.0 Section 316(b) of the Clean Water Act***

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Section 316(b) of the Federal Clean Water Act (Clean Water Act) requires that the location, design, construction, and capacity of cooling water intake structures reflect the best technology available for minimizing adverse environmental impacts.

In accordance with Federal and State guidelines, Southern California Edison, (SCE) conducted a study (completed in 1982) that addressed the important ecological and engineering factors specified in Section 316(b) guidelines. The study demonstrated that the ecological impacts of the intake system were of an environmentally acceptable order, and provided sufficient evidence that no modification for the location, design, construction or capacity of the existing systems was required. The design, construction, and operation of the intake structure was then considered Best Available Technology Economically Achievable (BAT) as required by Section 316(b) of the Clean Water Act (CWA). A finding to this effect is part of the Order 00-0084.

On July 9, 2004, The U.S. Environmental Protection Agency (USEPA) published its final rule prescribing how “existing facilities” may comply with Section 316(b) of the Clean Water Act. 69 Fed. Reg. 41575, 41683 (July 9, 2004). For most existing facilities, this rule will require a large amount of data to establish “best technology available” for the facility’s intake structure and to demonstrate compliance with the rule.

El Segundo Generating Station (ESGS) is a “Phase II existing facility” within the meaning of 40 CFR 125.91. As such, it is required to comply with the Phase II rule, and in particular to submit the studies and information required by 40 CFR 125.95.

Section 125.95 of the new rule requires detailed studies and other information to establish what intake structure technology or other measures will be used to comply with the rule. Accordingly, a detailed request for schedule to submit information to comply with the Phase II 316(b) Rule (40 CFR Part 125 Subpart J) was submitted to the Board separately from this application and is also attached in Section 10.0 of this document.

***EPA Form 2C***  
***Historical Monitoring Data***

**F) OUTFALL PRIORITY POLLUTANTS #001**

Constituent & Date of Sample	Concentration				Units	Frequency of Analysis
Date	5/13/04	5/19/04	6/16/04			
Antimony	0.12	0.135			ug/l	Quarterly
Arsenic	1.06	1.06			ug/l	Quarterly
Barium					Ng/l	Quarterly
Beryllium	ND	0.016			ug/l	Quarterly
Cadmium	0.034	ND			ug/l	Quarterly
Chromium (Total)	0.4	2.08			ug/l	Quarterly
Chromium, Hexavalent					ug/l	Quarterly
Cobalt					ug/l	Quarterly
Copper	0.843	0.045			ug/l	Quarterly
Lead	0.347	0.063			ug/l	Quarterly
Mercury	ND	ND			ug/l	Quarterly
Molybdenum					ug/l	Quarterly
Nickel	0.114	0.387			ug/l	Quarterly
Selenium	0.046	0.031			ug/l	Quarterly
Silver	ND	ND			ug/l	Quarterly
Thallium	0.01	0.014			ug/l	Quarterly
Vanadium					mg/l	Quarterly
Zinc	3.05	3.36			ug/l	Quarterly
1,1,1,2-Tetrachloroethane			ND		ug/l	Quarterly
1,1,1-Trichloroethane			ND		ug/l	Quarterly
1,1,2,2-Tetrachloroethane			ND		ug/l	Quarterly
1,1,2-Trichloroethane					ug/l	Quarterly
1,1-Dichloroethane			ND		ug/l	Quarterly
1,1-Dichloropropane			ND		ug/l	Quarterly
1,2,3-Trichlorobenzene					ug/l	Quarterly
1,2,3-Trichloropropane					ug/l	Quarterly
1,2,4-Trichlorobenzene			ND		ug/l	Quarterly
1,2,4-Trimethylbenzene					ug/l	Quarterly
1,2-Dibromoethane					ug/l	Quarterly
1,2-Dibromo-3-Chloropropane					ug/l	Quarterly
1,2-Dichlorobenzene					ug/l	Quarterly
1,2-Dichlorobenzene			ND		ug/l	Quarterly
1,2-Dichloroethane					ug/l	Quarterly
1,2-Diphenylhydrazine			ND		ug/l	Quarterly
1,2-Dichloropropane					ug/l	Quarterly
1,3,5-Trimethylbenzene					ug/l	Quarterly
1,3-Dichlorobenzene			ND		ug/l	Quarterly
1,4-Dichlorobenzene			ND		ug/l	Quarterly
1,2-Dibromo-3-Chloropropane					ug/l	Quarterly
1-Methylphenanthrene					ug/l	Quarterly
1-Methylnaphthalene					ug/l	Quarterly
2,2-Dichloropropane					ug/l	Quarterly
2,3,5-Trimethylnaphthalene					ug/l	Quarterly

**II) OUTFALL PRIORITY POLLUTANTS-#001**

Constituent & Date of Sample	Concentration				Units	Frequency of Analysis
Date	5/13/04	5/19/04	6/16/04			
2,3,7,8 TCDD			ND		ng/l	Quarterly
2,4,5-Trichlorophenol					ng/l	Quarterly
2,4,6-Trichlorophenol			ND		ng/l	Quarterly
2,4' DDD			ND		ng/l	Quarterly
2,4'-DDE			ND		ng/l	Quarterly
2,4'-DDT			ND		ng/l	Quarterly
2,4-Dichlorophenol			ND		ng/l	Quarterly
2,4-Dimethylphenol			ND		ng/l	Quarterly
2,4-Dinitrophenol			ND		ng/l	Quarterly
2,4-Dinitrotoluene			ND		ng/l	Quarterly
2,6 Dimethylnaphthalene					ng/l	Quarterly
2,6 Dinitrotoluene			ND		ng/l	Quarterly
2-Butanone					ug/l	Quarterly
2-Chloroethyl Vinyl Ether			ND		ug/l	Quarterly
2-Chloronaphthalene			ND		ng/l	Quarterly
2-Chlorophenol			ND		ng/l	Quarterly
2-Chlorotoluene					ug/l	Quarterly
2-Hexanone					ug/l	Quarterly
2-Methy-4,6 dinitrophenol			ND		ng/l	Quarterly
2-Methylnaphthalene					ng/l	Quarterly
2-Methylphenol					ug/l	Quarterly
2-Nitroaniline					ug/l	Quarterly
2-Nitrophenol			ND		ng/l	Quarterly
3,3'-Dichlorobenzidine			ND		ng/l	Quarterly
3/4-Methylphenol					ng/l	Quarterly
3-Nitroaniline					ug/l	Quarterly
4,4' DDD			ND		ng/l	Quarterly
4,4'-DDE			ND		ng/l	Quarterly
4,4'DDT			ND		ng/l	Quarterly
4,6-Dinitro-2-Methylphenol					ng/l	Quarterly
4-Bromophenyl-Phenyl Ether			ND		ng/l	Quarterly
4-Chloro-3-Methylphenol			ND		ng/l	Quarterly
4-Chloroaniline					ug/l	Quarterly
4-Chlorophenyl-Phenyl Ether			ND		ng/l	Quarterly
4-Chlorotoluene					ug/l	Quarterly
4-Methyl-2-Pentanone					ug/l	Quarterly
4-Nitroaniline					ug/l	Quarterly
4-Nitrophenol			ND		ng/l	Quarterly
Acenaphthene			ND		ug/l	Quarterly
Acenaphthylene			ND		ng/l	Quarterly
Acetone					ug/l	Quarterly
Acrolein			ND		ug/l	Quarterly
Acrylonitrile			ND		ng/l	Quarterly

**H) OUTFALL PRIORITY POLLUTANTS-#001**

Constituent & Date of Sample	Concentration				Units	Frequency of Analysis
Date	5/13/04	5/19/04	6/16/04			
Aldrin			ND		ng/l	Quarterly
Alpha-BHC			ND		ng/l	Quarterly
Ammonia Nitrate	ND				mg/L	Annually
Aniline					ug/l	Quarterly
Anthracene			ND		ng/l	Quarterly
Aroclor 1248			ND		ng/l	Quarterly
Aroclor 1254			ND		ng/l	Quarterly
Aroclor-1016			ND		ng/l	Quarterly
Aroclor-1221			ND		ng/l	Quarterly
Aroclor-1232			ND		ng/l	Quarterly
Aroclor-1242			ND		ng/l	Quarterly
Aroclor-1260			ND		ng/l	Quarterly
Aroclor-1262					ng/l	Quarterly
Azobenzene					ng/l	Quarterly
Benzene			ND		ug/l	Quarterly
Benzidine			ND		ug/l	Quarterly
Benzo (a) Anthracene			ND		ng/l	Quarterly
Benzo (a) pyrene			ND		ng/l	Quarterly
Benzo (b) Fluoranthene			ND		ng/l	Quarterly
Benzo (e) pyrene			ND		ng/l	Quarterly
Benzo (g,h,i) Perylene			ND		ng/l	Quarterly
Benzo (k) Fluoranthene			ND		ng/l	Quarterly
Benzo (k) Pyrene					ng/l	Quarterly
Benzoic Acid					ug/l	Quarterly
Benzyl Alcohol					ug/l	Quarterly
Beta BHC			ND		ng/l	Quarterly
Biphenyl					ng/l	Quarterly
Bis (2-chloroethoxy)methane			ND		ng/l	Quarterly
bis(2-chloroethyl)ether			ND		ng/l	Quarterly
bis(2 ethylhexyl) phthalate			36.6		ng/l	Quarterly
Bis(2-Chloroisopropyl) Ether			ND		ng/l	Quarterly
Bis-Chloroethoxy) Methane					ng/l	Quarterly
Bromobenzene					ug/l	Quarterly
Bromochloromethane			ND		ug/l	Quarterly
Bromodichloromethane					ug/l	Quarterly
Bromoform			ND		ug/l	Quarterly
Bromomethane			ND		ug/l	Quarterly
Butyl-Benzyl Phthalate			10.10		ng/l	Quarterly
c-1,2-Dichloroethane					ug/l	Quarterly
c-1,3-Dichloropropene			ND		ug/l	Quarterly
Carbon disulfide					ug/l	Quarterly
Carbon Tetrachloride			ND		ug/l	Quarterly
Chlordane					ng/l	Quarterly

**H) OUTFALL PRIORITY POLLUTANTS-#001**

Constituent & Date of Sample	Concentration				Units :	Frequency of Analysis
Date	5/13/04	5/19/04	6/16/04			
Chlordane alpha			ND		ug/l	Quarterly
Chlordane-gamma			ND		ng/l	Quarterly
Chlorethane			ND		ug/l	Quarterly
Chloroform			ND		ug/l	Quarterly
Chloromethane			ND		ug/l	Quarterly
Chlorobenzene			ND		ug/l	Quarterly
Chlordane-alpha			ND		ug/l	Quarterly
Chlordane-gamma			ND		ug/l	Quarterly
Chrysene			ND		ng/l	Quarterly
Delta-BHC			ND		ng/l	Quarterly
Dibenz (a,h) Anthracene			ND		ng/l	Quarterly
Dibenzofuran					ug/l	Quarterly
Dibromochloromethane			ND		ug/l	Quarterly
Dibromomethane					ug/l	Quarterly
Dichlorodifluoromethane					ug/l	Quarterly
Dieldrin			ND		ng/l	Quarterly
Diethyl Phthalate			30.3		ng/l	Quarterly
Diethyl Phthalate			ND		ng/l	Quarterly
Di-n-Butyl Phthalate			14.7		ng/l	Quarterly
Di-n-Octyl Phthalate			ND		ng/l	Quarterly
Endosulfan I			ND		ng/l	Quarterly
Endosulfan II			ND		ng/l	Quarterly
Endosulfan Sulfate			ND		ng/l	Quarterly
Endrin			ND		ug/l	Quarterly
Endrin Aldehyde			ND		ng/l	Quarterly
Endrin Ketone					ug/l	Quarterly
Ethylbenzene			ND		ug/l	Quarterly
Fluoranthene			ND		ng/l	Quarterly
Fluorene			ND		ng/l	Quarterly
Gamma-BHC			ND		ng/l	Quarterly
Heptachlor			ND		ng/l	Quarterly
Heptachlor Epoxide			ND		ng/l	Quarterly
Hexachloro-1,3 Butadiene					ug/l	Quarterly
Hexachlorobutadiene			ND		ng/l	Quarterly
Hexachlorobenzene			ND		ng/l	Quarterly

**H) OUTFALL PRIORITY POLLUTANTS-#001**

Constituent & Date of Sample	Concentration				Units	Frequency of Analysis
Date	5/13/04	5/19/04	6/16/04			
Hexachlorocyclopentadiene			ND		ng/l	Quarterly
Hexachlorocyclopentadiene			ND		ng/l	Quarterly
Indeno (1,2,3-c,d) Pyrene			ND		ng/l	Quarterly
Isophorone			ND		ng/l	Quarterly
Isopropylbenzene					ug/l	Quarterly
Methoxychlor					ug/l	Quarterly
Methylene chloride			ND		ug/l	Quarterly
Methyl-tert-Butyl Ether					ug/l	Quarterly
Mirex					ng/l	Quarterly
Naphthalene			ND		ng/l	Quarterly
n-Butylbenzene					ug/l	Quarterly
Nitrobenzene			ND		ng/l	Quarterly
Nitrate-N					mg/l	Annually
N-Nitrosodimethylamine			ND		ng/l	Quarterly
N-Nitroso-di-n-propylamine			ND		ng/l	Quarterly
N-Nitrosodiphenylamine			ND		ng/l	Quarterly
n-Propylbenzene					ug/l	Quarterly
o-Xylene					ug/l	Quarterly
m-m-Xylene					ug/l	Quarterly
Pentachlorophenol			ND		ng/l	Quarterly
Perylene					ng/l	Quarterly
Phenanthrene			ND		ng/l	Quarterly
Phenol			ND		ng/l	Quarterly
p-Isopropyltoluene					ug/l	Quarterly
Pyrene			ND		ng/l	Quarterly
Pyridine					ug/l	Quarterly
sec-Butylbenzene					ug/l	Quarterly
Styrene					ug/l	Quarterly
t-1,2-Dichloroethene			ND		ug/l	Quarterly
t-1,3-Dichloropropene			ND		ug/l	Quarterly
tert-Butylbenzene					ug/l	Quarterly
Tetrachloroethane					ug/l	Quarterly
Total Cyanide			ND		mg/L	Quarterly
Toxak Detectable DDTs			0		mg/L	Quarterly
Toxak Detectable PAHs					ug/l	Quarterly
Toulene					ug/l	Quarterly
Toxaphene			ND		ug/l	Quarterly
trans-Nonachlor					ug/l	Quarterly
Trichloroethene			ND		ug/l	Quarterly
Trichlorofluoromethane					ug/l	Quarterly
Vinyl Acetate					ug/l	Quarterly
Vinyl Chloride			ND		ug/l	Quarterly
Xylenes			ND		ng/l	Quarterly

**1) OUTFALL PRIORITY POLLUTANTS #002**

Constituent & Date of Sample	Concentration				Units	Frequency of Analysis
Date	5/13/04	5/19/04	6/16/04			
Antimony	0.117	0.130			ug/l	Quarterly
Arsenic	1.01	0.887			ug/l	Quarterly
Barium					Ng/l	Quarterly
Beryllium	ND	0.009			ug/l	Quarterly
Cadmium	0.36	ND			ug/l	Quarterly
Chromium (Total)	0.38	1.91			ug/l	Quarterly
Chromium, Hexavalent					ug/l	Quarterly
Cobalt					ug/l	Quarterly
Copper	1.56	0.691			ug/l	Quarterly
Lead	0.256	ND			ug/l	Quarterly
Mercury	ND	ND			ug/l	Quarterly
Molybdenum					ug/l	Quarterly
Nickel	0.451	0.186			ug/l	Quarterly
Selenium	0.23	0.018			ug/l	Quarterly
Silver	ND	ND			ug/l	Quarterly
Thallium	0.0131	0.013			ug/l	Quarterly
Vanadium					mg/l	Quarterly
Zinc	3.48	3.59			ug/l	Quarterly
1,1,1,2-Tetrahydroethane			ND		ug/l	Quarterly
1,1,1-Trichloroethane			ND		ug/l	Quarterly
1,1,2,2-Tetrachloroethane			ND		ug/l	Quarterly
1,1,2-Trichloroethane			ND		ug/l	Quarterly
1,1-Dichloroethane			ND		ug/l	Quarterly
1,1-Dichloropropane					ug/l	Quarterly
1,2,3-Trichlorobenzene					ug/l	Quarterly
1,2,3-Trichloropropane					ug/l	Quarterly
1,2,4-Trichlorobenzene			ND		ng/l	Quarterly
1,2,4-Trimethylbenzene					ng/l	Quarterly
1,2-Dibromoethane					ug/l	Quarterly
1,2-Dibromo-3-Chloropropane					ng/l	Quarterly
1,2-Dichlorobenzene			ND		ng/l	Quarterly
1,2-Dichlorobezene					ng/l	Quarterly
1,2-Dichloroethane			ND		ug/l	Quarterly
1,2-Diphenylhydrazine			ND		ng/l	Quarterly
1,2-Dichloropropane					ug/l	Quarterly
1,3,5-Trimethylbenzene					ng/l	Quarterly
1,3-Dichlorobenzene			ND		ng/l	Quarterly
1,4-Dichlorobenzene			ND		ng/l	Quarterly

**D) OUTFALL PRIORITY POLLUTANTS #002**

Constituent & Date of Sample	Concentration				Units	Frequency of Analysis
Date	5/13/04	5/19/04	6/16/04			
1,2-Dibromo-3-Chloropropane					ng/l	Quarterly
1-Methylphenanthrene					ng/l	Quarterly
1-Methylnaphthalene					ng/l	Quarterly
2,2-Dichloropropane					ug/l	Quarterly
2,3,5-Trimethylnaphthalene					ng/l	Quarterly
2,3,7,8 TCDD			ND		ng/l	Quarterly
2,4,5-Trichlorophenol					ug/l	Quarterly
2,4,6-Trichlorophenol			ND		ng/l	Quarterly
2,4-DDE			ND		ng/l	Quarterly
2,4-DDT			ND		ng/l	Quarterly
2,4-Dichlorophenol			ND		ug/l	Quarterly
2,4-Dimethylphenol			ND		ng/l	Quarterly
2,4-Dinitrophenol			ND		ng/l	Quarterly
2,4-Dinitrotoluene			ND		ng/l	Quarterly
2,6-Dimethylnaphthalene					ng/l	Quarterly
2,6-Dinitrotoluene			ND		ng/l	Quarterly
2,4'-DDD			ND		ng/l	Quarterly
2-Butanone					ug/l	Quarterly
2-Chloromethyl Vinyl Ether			ND		ng/l	Quarterly
2-Chloronaphthalene			ND		ng/l	Quarterly
2-Chlorophenol			ND		ng/l	Quarterly
2-Chlorotoluene					ug/l	Quarterly
2-Hexanone					ug/l	Quarterly
2-Methy-4,6-dinitrophenol			ND		ng/l	Quarterly
2-Methylnaphthalene					ng/l	Quarterly
2-Methylphenol					ug/l	Quarterly
2-Nitroaniline					ug/l	Quarterly
2-Nitrophenol			ND		ng/l	Quarterly
3,3'-Dichlorobenzidine			ND		ng/l	Quarterly
3/4-Methylphenol					ug/l	Quarterly
3-Nitroaniline					ug/l	Quarterly
4,4'-DDD			ND		ng/l	Quarterly
4,4'-DDR			ND		ng/l	Quarterly
4,4-DDT			ND		ng/l	Quarterly
4,6-Dinitro-2-Methylphenol			ND		ug/l	Quarterly
4-Bromophenyl-Phenyl Ether			ND		ng/l	Quarterly
4-Chloro-3-Methylphenol			ND		ng/l	Quarterly
4-Chloroaniline					ug/l	Quarterly
4-Chlorophenyl-Phenyl Ether			ND		ng/l	Quarterly

**I) OUTFALL PRIORITY POLLUTANTS #002**

Constituent & Date of Sample	Concentration				Units	Frequency of Analysis
Date	5/13/04	5/19/04	6/16/04			
4-Chlorotoluene					ug/l	Quarterly
4-Methyl-2-Pentanone					ug/l	Quarterly
4-Nitroaniline					ug/l	Quarterly
4-Nitrophenol			ND		ng/l	Quarterly
Acenaphthene			ND		ng/l	Quarterly
Acenaphthylene			ND		ng/l	Quarterly
Acetone					ug/l	Quarterly
Acrolein			ND		ug/l	Quarterly
Acrylonitrile			ND		ug/l	Quarterly
Aldrin			ND		ng/l	Quarterly
Alpha-BHC			ND		ng/l	Quarterly
Ammonia Nitrate	ND				mg/L	Annually
Aniline					ug/l	Quarterly
Anthracene			ND		ng/l	Quarterly
Aroclor 1248			ND		ng/l	Quarterly
Aroclor 1254			ND		ng/l	Quarterly
Aroclor-1016			ND		ng/l	Quarterly
Aroclor-1221			ND		ng/l	Quarterly
Aroclor-1232			ND		ng/l	Quarterly
Aroclor-1242			ND		ng/l	Quarterly
Aroclor-1260			ND		ng/l	Quarterly
Aroclor-1262					ng/l	Quarterly
Azobenzene					ng/l	Quarterly
Benzene			ND		ng/l	Quarterly
Benzidine			ND		ng/l	Quarterly
Benzo (a) Anthracene			ND		ng/l	Quarterly
Benzo (a) pyrene			ND		ng/l	Quarterly
Benzo (h) Fluoranthene			ND		ng/l	Quarterly
Benzo (e) pyrene			ND		ng/l	Quarterly
Benzo (g,h,i) Perylene			ND		ng/l	Quarterly
Benzo (k) Fluoranthene			ND		ng/l	Quarterly
Benzo (k) Pyrene					ng/l	Quarterly
Benzoic Acid					ug/l	Quarterly
Benzyl Alcohol					ug/l	Quarterly
Beta-BHC			ND		ng/l	Quarterly
Biphenyl					ng/l	Quarterly
Bis (2-chloroethoxy)methane			ND		ng/l	Quarterly
bis(2-chloroethyl) ether			ND		ng/l	Quarterly
bis(2 ethylhexyl) phthalate			85.1		ng/l	Quarterly

**U) OUTFALL PRIORITY POLLUTANTS-#002**

Constituent & Date of Sample	Concentration				Units	Frequency of Analysis
Date	5/13/04	5/19/04	6/16/04			
Bis(2-Chloroisopropyl) Ether			ND		ng/l	Quarterly
Bis( Chloroethoxy) Methane			ND		ng/l	Quarterly
Bromobenzene					ug/l	Quarterly
Bromochloromethane					ug/l	Quarterly
Bromodichloromethane			ND		ug/l	Quarterly
Bromoform			ND		ug/l	Quarterly
Bromomethane			ND		ug/l	Quarterly
Butyl-Benzyl Phthalate			ND		ng/l	Quarterly
c-1,2-Dichloroethane					ug/l	Quarterly
c-1,3-Dichloropropene			ND		ug/l	Quarterly
Carbon disulfide					ug/l	Quarterly
Carbon Tetrachloride			ND		ug/l	Quarterly
Chlordane					ng/l	Quarterly
Chlordane-alpha			ND		ng/l	Quarterly
Chlordane-gamma			ND		ng/l	Quarterly
Chlorethane			ND		ug/l	Quarterly
Chloroform					ug/l	Quarterly
Chlormethane			ND		ug/l	Quarterly
Chlorobenzene			ND		ug/l	Quarterly
Chlorodane-alpha					ug/l	Quarterly
Chlorodane gamma					ug/l	Quarterly
Chrysene-			ND		ng/l	Quarterly
Delta-BHC			ND		ng/l	Quarterly
Dibenz (a,h) Anthracene			ND		ng/l	Quarterly
Dibenzofuran					ug/l	Quarterly
Dibromochloromethane			ND		ng/l	Quarterly
Dibromomethane					ug/l	Quarterly
Dichlorodifluoromethane					ng/l	Quarterly
Dieldrin			ND		ng/l	Quarterly
Diethyl Phthalate			18.1		ng/l	Quarterly
Dimethyl Phthalate			ND		ng/l	Quarterly
Di-n-Butyl Phthalate			20.8		ng/l	Quarterly
Di-n-Octyl Phthalate-			ND		ng/l	Quarterly
Endosulfan I			ND		ng/l	Quarterly
Endosulfan II			ND		ng/l	Quarterly
Endosulfan Sulfate			ND		ng/l	Quarterly
Endrin			ND		ng/l	Quarterly
Endrin Aldehyde			ND		ng/l	Quarterly
Endrin Ketone					ug/l	Quarterly

**J) OUTFALL PRIORITY POLLUTANTS-#002**

Constituent & Date of Sample	Concentration				Units	Frequency of Analysis
Date	5/13/04	5/19/04	6/16/04			
Ethylbenzene			ND		ug/l	Quarterly
Fluoranthene			ND		ug/l	Quarterly
Fluorene			ND		ug/l	Quarterly
Gamma-BHC			ND		ng/l	Quarterly
Heptachlor			ND		ng/l	Quarterly
Heptachlor Epoxide			ND		ug/l	Quarterly
Hexachloro-1,3 Butadiene					ug/l	Quarterly
Hexachlorobutadiene			ND		ng/l	Quarterly
Hexachlorobenzene			ND		ng/l	Quarterly
Hexachlorocyclopentadiene			ND		ng/l	Quarterly
Hexachloroethane			ND		ng/l	Quarterly
Indeno (1,2,3 c,d) Pyrene			ND		ng/l	Quarterly
Isophorone			ND		ng/l	Quarterly
Isopropylbenzene					ug/l	Quarterly
Methoxychlor					ug/l	Quarterly
Methylene chloride			ND		ug/l	Quarterly
Methyl-tert-Butyl Ether					ng/l	Quarterly
Mirex					ng/l	Quarterly
Naphthalene			ND		ng/l	Quarterly
n-Butylbenzene					ug/l	Quarterly
Nitrobenzene			ND		ng/l	Quarterly
Nitrate N					mg/L	Annually
N-Nitrosodimethylamine			ND		ng/l	Quarterly
N-Nitroso-di-n-propylamine			ND		ng/l	Quarterly
N Nitrosodiphenylamine			ND		ng/l	Quarterly
n-Propylbenzene					ug/l	Quarterly
o-Xylene					ng/l	Quarterly
p/m-Xylene					ng/l	Quarterly
Pentachlorophenol			ND		ng/l	Quarterly
Perylene					ng/l	Quarterly
Phenanthrene			ND		ng/l	Quarterly
Phenol			ND		ng/l	Quarterly
p-Isopropyltoluene					ug/l	Quarterly
Pyrene			ND		ng/l	Quarterly
Pyridine					ug/l	Quarterly
sec-Butylbenzene					ug/l	Quarterly
Styrene					ug/l	Quarterly
t-1,2-Dichloroethene			ND		ug/l	Quarterly
t-1,3-Dichloropropene			ND		ug/l	Quarterly

**1) OUTFALL PRIORITY POLLUTANTS #002**

Constituent & Date of Sample	Concentration				Units	Frequency of Analysis
Date	5/13/04	5/19/04	6/16/04			
tert-Butylbenzene					ug/l	Quarterly
Tetrachloroethane			ND		ug/l	Quarterly
Total Cyanide			ND		mg/L	Quarterly
Total Detectable DDTs			0		mg/L	Quarterly
Total Detectable PAHs					ug/l	Quarterly
Toluene			ND		ug/l	Quarterly
Toxaphene			ND		ng/l	Quarterly
trans-Nonachlor					ng/l	Quarterly
Trichloroethene			ND		ug/l	Quarterly
Trichlorofluoromethane					ug/l	Quarterly
Vinyl Acetate					ug/l	Quarterly
Vinyl Chloride			ND		ug/l	Quarterly
Xylenes			ND		ug/l	Quarterly

**H) OTHER HIGH PRIORITY POLLUTANTS #001**

Constituent & Date of Sample	Concentration				Units	Frequency of Analysis
Date	5/7/03	6/2/03				
Antimony	0.13	0.11			ug/l	Quarterly
Arsenic	1.8	0.1			ug/l	Quarterly
Beryllium	ND	0.01			ug/l	Quarterly
Cadmium	ND	0.08			ug/l	Quarterly
Chromium (Total)	0.87	22			ug/l	Quarterly
Chromium, Hexavalent					ug/l	Quarterly
Copper	0.49	84.6			ug/l	Quarterly
Lead	0.12	1.27			ug/l	Quarterly
Mercury	0.05	0.02			ug/l	Quarterly
Molybdenum					ug/l	Quarterly
Nickel	0.39	52.1			ug/l	Quarterly
Selenium	0.02	0.24			ug/l	Quarterly
Silver	ND	ND			ug/l	Quarterly
Thallium	0.009	ND			ug/l	Quarterly
Vanadium					mg/l	Quarterly
Zinc	2.14	0.93			ug/l	Quarterly
1,1,1,2-Tetrachloroethane	ND	ND			ug/l	Quarterly
1,1,1-Trichloroethane	ND	ND			ug/l	Quarterly
1,1,2,2-Tetrachloroethane	ND	ND			ug/l	Quarterly
1,1,2-Trichloroethane	ND	ND			ug/l	Quarterly
1,1-Dichloroethane	ND	ND			ug/l	Quarterly
1,1-Dichloropropane					ug/l	Quarterly
1,2,3-Trichlorobenzene	ND				ug/l	Quarterly
1,2,3-Trichloropropane					ug/l	Quarterly
1,2,4-Trichlorobenzene	ND	ND			ng/l	Quarterly
1,2,4-Trimethylbenzene					ng/l	Quarterly
1,2-Dibromoethane					ug/l	Quarterly
1,2-Dibromo-3-Chloropropane					ug/l	
1,2-Dichlorobenzene	ND	ND			ng/l	Quarterly
1,2-Dichloroethane	ND	ND			ug/l	Quarterly
1,2-Diphenylhydrazine					ng/l	Quarterly
1,2-Dichloropropane	ND	ND			ug/l	Quarterly
1,3,5-Trimethylbenzene					ug/l	Quarterly
1,3-Dichlorobenzene	ND	ND			ng/l	Quarterly
1,4-Dichlorobenzene	ND	ND			ng/l	Quarterly
1,2-Dibromo-3-Chloropropane					ng/l	Quarterly
1-Methylphenanthrene		ND			ng/l	Quarterly
1-Methylnaphthalene		ND			ng/l	Quarterly
2,2-Dichloropropane					ug/l	Quarterly
2,3,5-Trimethylnaphthalene		ND			ng/l	Quarterly
2,3,7,8 TCDD	ND	ND			ng/l	Quarterly

# ROUTINE PRIORITY POLLUTANTS #001

Constituent & Date of Sample	Concentration				Units	Frequency of Analysis
Date	5/7/03	6/2/03				
2,4,5-Trichlorophenol					ug/l	Quarterly
2,4,6-Trichlorophenol	ND	ND			ng/l	Quarterly
2,4'-DDD	ND	ND			ug/l	Quarterly
2,4'-DDE	ND	ND			ng/l	Quarterly
2,4'-DDT	ND	ND			ng/l	Quarterly
2,4-Dichlorophenol	ND	ND			ng/l	Quarterly
2,4-Dimethylphenol	ND	ND			ng/l	Quarterly
2,4-Dinitrophenol	ND	ND			ng/l	Quarterly
2,4-Dinitrotoluene	ND	ND			ng/l	Quarterly
2,6-Dimethylnaphthalene		ND			ng/l	Quarterly
2,6-Dinitrotoluene	ND	ND			ng/l	Quarterly
2-Butanone					ug/l	Quarterly
2-Chloroethyl Vinyl Ether	ND	ND			ug/l	Quarterly
2-Chloronaphthalene	ND	ND			ug/l	Quarterly
2-Chlorophenol	ND	ND			ng/l	Quarterly
2-Chlorotoluene					ug/l	Quarterly
2-Hexanone					ug/l	Quarterly
2-Methy-4,6 dinitrophenol	ND	ND			ng/l	Quarterly
2-Methylnaphthalene		ND			ng/l	Quarterly
2-Methylphenol					ug/l	Quarterly
2-Nitroaniline					ug/l	Quarterly
2-Nitrophenol	ND	ND			ng/l	Quarterly
3,3'-Dichlorobenzidine	ND	ND			ng/l	Quarterly
3/4-Methylphenol					ng/l	Quarterly
3-Nitroaniline					ug/l	Quarterly
4,4'-DDD	ND	ND			ug/l	Quarterly
4,4'-DDE	ND	ND			ng/l	Quarterly
4,4'-DDT	ND	ND			ng/l	Quarterly
4,6-Dinitro-2-Methylphenol					ug/l	Quarterly
4-Bromophenyl-Phenyl Ether	ND	ND			ng/l	Quarterly
4-Chloro-3-Methylphenol	ND	ND			ng/l	Quarterly
4-Chloroaniline					ug/l	Quarterly
4-Chlorophenyl-Phenyl Ether	ND	ND			ng/l	Quarterly
4-Chlorotoluene					ug/l	Quarterly
4-Methyl-2-Pentanone					ug/l	Quarterly
4-Nitroaniline					ug/l	Quarterly
4-Nitrophenol	ND	ND			ng/l	Quarterly
Acenaphthene	ND	ND			ug/l	Quarterly
Acenaphthylene	ND	ND			ng/l	Quarterly
Acetone					ug/l	Quarterly
Acrolein	ND	ND			ug/l	Quarterly

# HEAVY METAL PRIORITY POLLUTANTS #001

Constituent & Date of Sample	Concentration				Units	Frequency of Analysis
Date	5/7/03	6/2/03				
Acrylonitrile	ND	ND			ng/l	Quarterly
Aldrin	ND	ND			ng/l	Quarterly
Alpha-BHC	ND	ND			ng/l	Quarterly
Ammonia Nitrate	ND	0.34			mg/L	Annually
Aniline					ug/l	Quarterly
Anthracene	ND	ND			ug/l	Quarterly
Aroclor 1248	ND	ND			ng/l	Quarterly
Aroclor 1254	ND	ND			ng/l	Quarterly
Aroclor-1016	ND	ND			ng/l	Quarterly
Aroclor-1221	ND	ND			ng/l	Quarterly
Aroclor-1232	ND	ND			ng/l	Quarterly
Aroclor-1242	ND	ND			ng/l	Quarterly
Aroclor-1260	ND	ND			ng/l	Quarterly
Aroclor-1262					ng/l	Quarterly
Azobenzene					ng/l	Quarterly
Benzene	ND	ND			ug/l	Quarterly
Benidine	ND	ND			ng/l	Quarterly
Benzo (a) Anthracene	ND	ND			ng/l	Quarterly
Benzo (a) pyrene	ND				ng/l	Quarterly
Benzo (b) Fluoranthene	ND	ND			ng/l	Quarterly
Benzo (e) pyrene	ND				ng/l	Quarterly
Benzo (g,h,i) Perylene	ND				ng/l	Quarterly
Benzo (k) Fluoranthene	ND	ND			ng/l	Quarterly
Benzo (k) Pyrene					ng/l	Quarterly
Benzoic Acid					ug/l	Quarterly
Benzyl Alcohol					ug/l	Quarterly
Beta-BHC	ND	ND			ng/l	Quarterly
Biphenyl		ND			ng/l	Quarterly
Bis (2-chloroethoxy)methane	ND	ND			ng/l	Quarterly
bis(2-chloroethyl)ether	ND	ND			ng/l	Quarterly
bis(2 ethylhexyl) phthalate	199.0	136.0			ng/l	Quarterly
Bis(2-Chloroisopropyl) Ether	ND	ND			ng/l	Quarterly
Bis(-Chloroethoxy) Methane					ng/l	Quarterly
Bromobenzene					ug/l	Quarterly
Bromochloromethane					ug/l	Quarterly
Bromodichloromethane	ND	ND			ug/l	Quarterly
Bromoform	ND	ND			ug/l	Quarterly
Bromomethane	ND	ND			ug/l	Quarterly
Butyl-Benzyl Phthalate	ND	ND			ng/l	Quarterly
c-1,2-Dichloroethane					ug/l	Quarterly
c-1,3 Dichloropropene	ND	ND			ug/l	Quarterly

# HEOUTFALL PLOTS/POLUTANTS #001

Constituent & Date of Sample	Concentration				Units	Frequency of Analysis
Date	5/7/03	6/2/03				
Carbon disulfide					ug/l	Quarterly
Carbon Tetrachloride	ND	ND			ug/l	Quarterly
Chlordane					ng/l	Quarterly
Chlordane-alpha	ND	ND			ng/l	Quarterly
Chlordane-gamma	ND	ND			ng/l	Quarterly
Chlorethane	ND	ND			ug/l	Quarterly
Chloroform	ND	ND			ug/l	Quarterly
Chloroethane	ND	ND			ug/l	Quarterly
Chlorobenzene	ND	ND			ug/l	Quarterly
Chlorodane-alpha	ND	ND			ug/l	Quarterly
Chlorodane-gamma	ND	ND			ug/l	Quarterly
Chrysene	ND	ND			ng/l	Quarterly
Delta-BHC	ND	ND			ng/l	Quarterly
Dibenz (a,h) Anthracene	ND				ng/l	Quarterly
Dibenzofuran					ug/l	Quarterly
Dibromochloromethane	ND	ND			ug/l	Quarterly
Dibromomethane					ug/l	Quarterly
Dichlorodifluoromethane					ug/l	Quarterly
Dieldrin	ND	ND			ng/l	Quarterly
Diethyl Phthalate	ND	ND			ng/l	Quarterly
Dimethyl Phthalate	ND	ND			ng/l	Quarterly
Di-n-Butyl Phthalate	ND	11.9			ng/l	Quarterly
Di-n-Octyl Phthalate	ND	ND			ug/l	Quarterly
Endosulfan I	ND	ND			ng/l	Quarterly
Endosulfan II	ND	ND			ng/l	Quarterly
Endosulfan Sulfate	ND	ND			ng/l	Quarterly
Endrin	ND	ND			ng/l	Quarterly
Endrin Aldehyde	ND	ND			ng/l	Quarterly
Endrin Ketone					ug/l	Quarterly
Ethylbenzene	ND	ND			ug/l	Quarterly
Fluoranthene	ND	ND			ng/l	Quarterly
Fluorene	ND	ND			ng/l	Quarterly
Gamma-BHC	ND	ND			ng/l	Quarterly
Heptachlor	ND	ND			ng/l	Quarterly
Heptachlor Epoxide	ND	ND			ng/l	Quarterly
Hexachloro-1,3 Butadiene					ug/l	Quarterly
Hexachlorobutadiene	ND	ND			ng/l	Quarterly
Hexachlorobenzene	ND	ND			ng/l	Quarterly
Hexachlorocyclopentadiene	ND	ND			ng/l	Quarterly
Hexachloroethane	ND	ND			ng/l	Quarterly
Indeno (1,2,3-c,d) Pyrene	ND				ng/l	Quarterly

# REPORTING NORMS FOR POLLUTANTS

Constituent & Date of Sample	Concentration				Units	Frequency of Analysis
Date	5/7/03	6/2/03				
Isophorone	ND	ND			ng/l	Quarterly
Isopropylbenzene					ug/l	Quarterly
Methoxychlor	ND				ng/l	Quarterly
Methylene chloride	ND	ND			ng/l	Quarterly
Methyl-tert-Butyl Ether					ug/l	Quarterly
Mirex	ND				ng/l	Quarterly
Naphthalene	ND	ND			ng/l	Quarterly
n-Butylbenzene					ug/l	Quarterly
Nitrobenzene	ND	ND			ng/l	Quarterly
Nitrate-N					mg/L	Annually
N-Nitrosodimethylamine	ND	ND			ng/l	Quarterly
N-Nitroso-di-n-propylamine	ND	ND			ng/l	Quarterly
N-Nitrosodiphenylamine	ND	ND			ng/l	Quarterly
n-Propylbenzene					ug/l	Quarterly
o-Xylene					ug/l	Quarterly
p/m-Xylene					ug/l	Quarterly
Pentachlorophenol	ND	ND			ug/l	Quarterly
Perylene					ng/l	Quarterly
Phenanthrene	ND	ND			ng/l	Quarterly
Phenol	ND	ND			ug/l	Quarterly
p-Isopropyltoluene					ug/l	Quarterly
Pyrene	ND	ND			ng/l	Quarterly
Pyridine					ug/l	Quarterly
sec-Butylbenzene					ug/l	Quarterly
Styrene					ng/l	Quarterly
1,1,2-Dichloroethene	ND	ND			ug/l	Quarterly
1,1,3-Dichloropropene	ND	ND			ug/l	Quarterly
tert-Butylbenzene					ug/l	Quarterly
Tetrachloroethane	ND	ND			ug/l	Quarterly
Total Cyanide	ND				mg/L	
Total Detectable PAHs	0.0				ng/l	Quarterly
Toluene	ND	ND			ng/l	Quarterly
Toxaphene	ND	ND			ng/l	Quarterly
trans-Nonachlor	ND				ng/l	Quarterly
Trichloroethene	ND	ND			ug/l	Quarterly
Trichlorofluoromethane					ug/l	Quarterly
Vinyl Acetate					ug/l	Quarterly
Vinyl Chloride	ND	ND			ug/l	Quarterly
Xylenes	ND	ND			ug/l	Quarterly

Constituent & Date of Sample	Concentration				Units	Frequency of Analysis
Date	5/7/03					
Antimony	0.13				ug/l	Quarterly
Arsenic	1.73				ug/l	Quarterly
Beryllium	ND				ug/l	Quarterly
Cadmium	ND				ug/l	Quarterly
Chromium (Total)	1.01				ug/l	Quarterly
Chromium, Hexavalent					ug/l	Quarterly
Copper	0.88				ug/l	Quarterly
Lead	0.11				ug/l	Quarterly
Mercury	0.005				ug/l	Quarterly
Molybdenum					ug/l	Quarterly
Nickel	0.39				ug/l	Quarterly
Selenium	ND				ug/l	Quarterly
Silver	ND				ug/l	Quarterly
Thallium	0.01				ug/l	Quarterly
Vanadium					mg/l	Quarterly
Zinc	2.26				ug/l	Quarterly
1,1,1,2-Tetrachloroethane	ND				ug/l	Quarterly
1,1,1-Trichloroethane	ND				ug/l	Quarterly
1,1,2,2-Tetrachloroethane	ND				ug/l	Quarterly
1,1,2-Trichloroethane	ND				ug/l	Quarterly
1,1-Dichloroethane	ND				ug/l	Quarterly
1,1-Dichloropropane					ug/l	Quarterly
1,2,3-Trichlorobenzene	ND				ug/l	Quarterly
1,2,3-Trichloropropane					ug/l	Quarterly
1,2,4-Trichlorobenzene	ND				ng/l	Quarterly
1,2,4-Trimethylbenzene					ng/l	Quarterly
1,2-Dibromoethane					ug/l	Quarterly
1,2-Dibromo-3-Chloropropane					ug/l	
1,2-Dichlorobenzene	ND				ng/l	Quarterly
1,2-Dichloroethane	ND				ug/l	Quarterly
1,2-Diphenylhydrazine					ug/l	Quarterly
1,2-Dichloropropane	ND				ug/l	Quarterly
1,3,5-Trimethylbenzene					ng/l	Quarterly
1,3-Dichlorobenzene	ND				ng/l	Quarterly
1,4-Dichlorobenzene	ND				ng/l	Quarterly
1,2-Dibromo-3-Chloropropane					ug/l	Quarterly
1-Methylphenanthrene					ng/l	Quarterly
1-Methylnaphthalene					ng/l	Quarterly

Constituent & Date of Sample	Concentration				Units	Frequency of Analysis
Date	5/1/03					
2,2-Dichloropropane					ug/l	Quarterly
2,3,5-Trimethylnaphthalene					ng/l	Quarterly
2,3,7,8 TCDD	ND				ng/l	Quarterly
2,4,5-Trichlorophenol					ug/l	Quarterly
2,4,6-Trichlorophenol	ND				ng/l	Quarterly
2,4'-DDD	ND				ng/l	Quarterly
2,4'-DDE	ND				ng/l	Quarterly
2,4'-DDT	ND				ng/l	Quarterly
2,4-Dichlorophenol	ND				ng/l	Quarterly
2,4-Dimethylphenol	ND				ng/l	Quarterly
2,4-Dinitrophenol	ND				ng/l	Quarterly
2,4-Dinitrotoluene	ND				ng/l	Quarterly
2,6-Dimethylnaphthalene					ng/l	Quarterly
2,6-Dinitrotoluene	ND				ng/l	Quarterly
2-Butanone					ug/l	Quarterly
2-Chloroethyl Vinyl Ether	ND				ug/l	Quarterly
2-Chloronaphthalene	ND				ng/l	Quarterly
2-Chlorophenol	ND				ng/l	Quarterly
2-Chlorotoluene					ug/l	Quarterly
2-Hexanone					ng/l	Quarterly
2-Methy-4,6 dinitrophenol	ND				ng/l	Quarterly
2-Methylnaphthalene					ng/l	Quarterly
2-Methylphenol					ug/l	Quarterly
2-Nitroaniline					ug/l	Quarterly
2-Nitrophenol	ND				ng/l	Quarterly
3,3'-Dichlorobenzidine	ND				ng/l	Quarterly
3/4-Methylphenol					ug/l	Quarterly
3-Nitroaniline					ug/l	Quarterly
4,4'-DDD	ND				ng/l	Quarterly
4,4'-DDE	ND				ng/l	Quarterly
4,4'-DDT	ND				ng/l	Quarterly
4,6-Dinitro-2-Methylphenol					ug/l	Quarterly
4-Bromophenyl-Phenyl Ether	ND				ng/l	Quarterly
4-Chloro-3-Methylphenol	ND				ng/l	Quarterly
4-Chloroaniline					ug/l	Quarterly
4-Chlorophenyl-Phenyl Ether	ND				ng/l	Quarterly
4-Chlorotoluene					ug/l	Quarterly
4-Methyl-2-Pentanone					ug/l	Quarterly
4-Nitroaniline					ug/l	Quarterly

Constituent & Date of Sample	Concentration				Units	Frequency of Analysis
Date	5/7/03					
4-Nitrophenol	ND				ng/l	Quarterly
Acenaphthene	ND				ng/l	Quarterly
Acenaphthylene	ND				ng/l	Quarterly
Acetone					ug/l	Quarterly
Acrolein	ND				ug/l	Quarterly
Acrylonitrile	ND				ug/l	Quarterly
Aldrin	ND				ng/l	Quarterly
Alpha-BHC	ND				ng/l	Quarterly
Ammonia Nitrate	ND				mg/l	Annually
Aniline					ug/l	Quarterly
Anthracene	ND				ng/l	Quarterly
Aroclor 1248	ND				ng/l	Quarterly
Aroclor 1254	ND				ng/l	Quarterly
Aroclor 1016	ND				ng/l	Quarterly
Aroclor-1221	ND				ng/l	Quarterly
Aroclor-1232	ND				ng/l	Quarterly
Aroclor-1242	ND				ng/l	Quarterly
Aroclor-1260	ND				ng/l	Quarterly
Aroclor-1262					ng/l	Quarterly
Azobenzene					ng/l	Quarterly
Benzene	ND				ug/l	Quarterly
Benzidine	ND				ng/l	Quarterly
Benzo (a) Anthracene	ND				ng/l	Quarterly
Benzo (a) pyrene	ND				ng/l	Quarterly
Benzo (b) Fluoranthene	ND				ng/l	Quarterly
Benzo (c) pyrene	ND				ng/l	Quarterly
Benzo (g,h,i) Perylene	ND				ng/l	Quarterly
Benzo (k) Fluoranthene	ND				ng/l	Quarterly
Benzo (k) Pyrene					ng/l	Quarterly
Benzoic Acid					ug/l	Quarterly
Benzyl Alcohol					ug/l	Quarterly
Beta-BHC	ND				ng/l	Quarterly
Biphenyl					ng/l	Quarterly
Bis (2-chloroethoxy)methane	ND				ng/l	Quarterly
bis(2-chloroethyl) ether	ND				ng/l	Quarterly
bis(2 ethylhexyl) phthalate	272.0				ng/l	Quarterly
Bis(2-Chloroisopropyl) Ether	ND				ng/l	Quarterly
Bis-(Chloromethoxy) Methane	ND				ng/l	Quarterly
Bromobenzene					ug/l	Quarterly

Constituent & Date of Sample	Concentration				Units	Frequency of Analysis
Date	5/7/03					
Bromochloromethane					ug/l	Quarterly
Bromodichloromethane	ND				ug/l	Quarterly
Bromofuran	ND				ug/l	Quarterly
Bromomethane	ND				ug/l	Quarterly
Butyl-Benzyl Phthalate	ND				ng/l	Quarterly
c-1,2-Dichloroethane					ug/l	Quarterly
c-1,3 Dichloropropene	ND				ug/l	Quarterly
Carbon disulfide					ug/l	Quarterly
Carbon Tetrachloride	ND				ug/l	Quarterly
Chlordane					ng/l	Quarterly
Chlordane-alpha	ND				ng/l	Quarterly
Chlordane-gamma	ND				ng/l	Quarterly
Chlorethane	ND				ug/l	Quarterly
Chloroform	ND				ug/l	Quarterly
Chloromethane	ND				ug/l	Quarterly
Chlorobenzene	ND				ug/l	Quarterly
Chlorodane-alpha	ND				ug/l	Quarterly
Chlorodane-gamma	ND				ug/l	Quarterly
Chrysene-	ND				ng/l	Quarterly
Delta-BHC	ND				ng/l	Quarterly
Dibenz (a,h) Anthracene	ND				ng/l	Quarterly
Dibenzofuran					ug/l	Quarterly
Dibromochloromethane	ND				ng/l	Quarterly
Dibromomethane					ug/l	Quarterly
Dichlorodifluoromethane					ug/l	Quarterly
Dieldrin	ND				ng/l	Quarterly
Diethyl Phthalate	ND				ug/l	Quarterly
Dimethyl Phthalate	ND				ng/l	Quarterly
Di-n-Butyl Phthalate	ND				ng/l	Quarterly
Di-n-Octyl Phthalate-	ND				ng/l	Quarterly
Endosulfan I	ND				ng/l	Quarterly
Endosulfan II	ND				ng/l	Quarterly
Endosulfan Sulfate	ND				ng/l	Quarterly
Endrin	ND				ng/l	Quarterly
Endrin Aldehyde	ND				ng/l	Quarterly
Endrin Ketone					ng/l	Quarterly
Ethylbenzene	ND				ng/l	Quarterly
Fluoranthene	ND				ng/l	Quarterly
Fluorene	ND				ng/l	Quarterly

Constituent & Date of Sample	Concentration				Units	Frequency of Analysis
Date	5/7/03					
Gamma-BHC	ND				ng/l	Quarterly
Heptachlor	ND				ng/l	Quarterly
Heptachlor Epoxide	ND				ng/l	Quarterly
Hexachloro-1,3 Butadiene					ug/l	Quarterly
Hexachlorobutadiene	ND				ng/l	Quarterly
Hexachlorobenzene	ND				ng/l	Quarterly
Hexachlorocyclopentadiene	ND				ng/l	Quarterly
Hexachloroethane	ND				ng/l	Quarterly
Indeno (1,2,3-c,d) Pyrene	ND				ng/l	Quarterly
Isophorone	ND				ug/l	Quarterly
Isopropylbenzene					ug/l	Quarterly
Methoxychlor	ND				ng/l	Quarterly
Methylene chloride	ND				ug/l	Quarterly
Methyl-tert-Butyl Ether					ug/l	Quarterly
Mirex	ND				ng/l	Quarterly
Napthalene	ND				ng/l	Quarterly
n-Butylbenzene					ug/l	Quarterly
Nitrobenzene	ND				ng/l	Quarterly
Nitrate-N					mg/L	Annually
N-Nitrosodimethylamine	ND				ng/l	Quarterly
N-Nitroso-di-n-propylamine	ND				ng/l	Quarterly
N-Nitrosodiphenylamine	ND				ng/l	Quarterly
n-Propylbenzene					ug/l	Quarterly
o-Xylene					ug/l	Quarterly
p/m-Xylene					ug/l	Quarterly
Pentachlorophenol	ND				ng/l	Quarterly
Perylene					ng/l	Quarterly
Phenanthrene	ND				ng/l	Quarterly
Phenol	ND				ng/l	Quarterly
p-Isopropyltoluene					ug/l	Quarterly
Pyrene	ND				ng/l	Quarterly
Pyridine					ug/l	Quarterly
sec-Butylbenzene					ug/l	Quarterly
Styrene					ug/l	Quarterly
1,1,2-Dichloroethene	ND				ug/l	Quarterly
1,1,3-Dichloropropene	ND				ug/l	Quarterly
tert-Butylbenzene					ug/l	Quarterly
Tetrachloroethane	ND				ug/l	Quarterly
Total Cyanide	ND				mg/L	

Constituent & Date of Sample	Concentration				Units	Frequency of Analysis
Date	5/7/03					
Total Detectable PAHs	0.0				ug/l	Quarterly
Toulene	ND				ug/l	Quarterly
Toxaphene	ND				ug/l	Quarterly
trans-Nonachlor	ND				ug/l	Quarterly
Trichloroethene	ND				ug/l	Quarterly
Trichlorofluoromethane					ug/l	Quarterly
Vinyl Acetate					ug/l	Quarterly
Vinyl Chloride	ND				ug/l	Quarterly
Xylenes	ND				ug/l	Quarterly

***EPA Form 2C***  
***Requested Permit Changes***

**EPA FORM 2C  
ATTACHMENT 3**

**Requested Changes to the Permit**

El Segundo Generating Station requests the Regional Board add the following findings as defined below to the forthcoming 2005 Order.

Desalination Pilot Plant:

As discussed in Section 3.0 of the Facility Operation Description, in May of 2002, the California Regional Water Quality Control Board, Los Angeles Region, approved the installation and operation of the seawater desalination pilot plant as proposed by West Basin Municipal Water District (West Basin). In May 2002, West Basin initiated seawater desalination operations and testing in accordance with the conditions set forth by the Regional Board in a letter dated May 16, 2002.

The Regional Board approved the use of 30 gallons per minute (gpm) (.043 MGD) of seawater from the cooling water intake to microfiltration and reverse osmosis units. The seawater is separated into two components; pure water and waste brine. Each of the separated streams constitutes 50% of the intake flow (15 gpm of pure water and 15 gpm of brine). The brine and reverse osmosis permeate is returned into the power plant's cooling water intake. Chemicals such as sodium hypochlorite, ammonium hypochlorite, and antiscalant are added to the influent water to enhance the removal efficiency of dissolved solids during desalination. The total amount of chemicals added have very little impact to the cooling water flow and the Desalination Pilot Plant operation does not constitute a material change to the power plant's outfall. Therefore, in accordance with the letter set forth by the Regional Board dated May 16, 2002, the NPDES permit did not need to be reopened and a separate NPDES permit was not required for the Desalination Pilot Plant.

In addition to the Desalination Pilot Plant, a pipe loop corrosion study associated with the seawater from the Desalination Pilot Plant was approved by the Regional Board on April 12, 2004. In accordance with the conditions set forth by the Regional Board, this study is designed to evaluate the effects of reverse osmosis (RO) treated seawater on typical household plumbing materials (copper, galvanized steel and brass) and to demonstrate that seawater-derived potable water is stable, non-corrosive, and does not present any health risks.

Three blends of water are tested:

- 100% stabilized RO permeate
- 50% stabilized RO permeate and 50% Metropolitan Water District (MWD) drinking water
- 100% MWD water

Each water source and metal type is tested in triplicate which results in 27 pipe loops, each with an approximate volume of one liter of water. The pipe loops are designed to take pre-treated water from the existing micro-filtration (MF) pilot plant; therefore requiring no additional pumping of raw seawater. In addition, the second RO pilot plant is sized so that it produces enough water to supply the pipe loops. The pipe loops operate on a cycle intended to simulate household flow patterns with the water stagnated in the pipes for 23 hours and flowing at 1 gallon per minute (gpm) for 1 hour. Due to the lack of enough water supply by the MF and RO units for simultaneous operation of all the pipe loops, the maximum flow rate and discharge from the pipe loops is approximately 9 gpm with staggered operation of the individual pipe loops.

The total flow from the study is approximately 1,620 gallons per day. Since low concentrations of metals will be observed in the pipe loop discharge, the water is sent to the retention basin at the El Segundo Generating Station prior to being discharged with the cooling water. However, the RO permeate is conditioned to mitigate metal release and produce water that is suitable for potable use.

The quantity of loop study water discharged is relatively small (the minimum condenser coolant flow is approximately 100 million gallons per day, contributing 0.000162%) and the leachate containing regulated metals, has negligible to undetectable contribution to the metals discharge of the power plant. Accordingly, the Regional Board approved the study and determined that the operation will not constitute a material change for the NPDES permit issued to El Segundo Generating Station (letter dated April 12, 2004). Permission has been granted by the Regional Board to conduct the study for a period of one year (expiration date: May 31, 2005).

As discussed in Section 3.0 of the Facility Operation Description, on August 6, 2004, West Basin submitted a request to the Regional Board to continue desalination pilot operation at the El Segundo Generating Station on warm water from the power plant's effluent water (Conduit 2) rather than the current intake water source. The purpose of this request is to evaluate the expected energy savings and equipment footprint reduction from operation on warm water. A second pre-treatment unit employing ultra-filtration, requiring an increased intake flow rate of

up to 80 gpm, was also proposed to be brought on site for comparison to the microfiltration technology. All of these study parameters are estimated to extend through December 2006; therefore as indicated in this letter, West Basin requests the Regional Board's permission to operate with the additional flow needs in the requested time extension.

Retention Basin Biological Growth Control:

As discussed in Section 1.0 of the Facility Operation Description, in order to control biological growths (algae), the retention basin is intermittently treated by addition sodium hypochlorite. In addition to this, an algae eating product containing diatomaceous earth is also added to the retention basin. Other techniques such as mechanical treatment using vacuum trucks and oil skimmers are also applied at the Retention Basin. The corresponding MSDS sheets are included in this attachment.

Incidental Runoff:

El Segundo Power, LLC uses recycled water that has received tertiary filtration for pathogen removal for irrigation purposes as specified under Title 22 guidelines. This recycled water applied for irrigation is intended to remain on the irrigated areas. Even though incidental runoff of minor amounts of recycled water can be minimized, it cannot be fully prevented. Similarly, it is not possible to completely prevent the runoff of rainwater from areas irrigated with recycled water. El Segundo Generating Station is designed and operated to avoid runoff to waters of the State (Pacific Ocean - Santa Monica Bay). Occasional incidental discharge does not unreasonably affect the beneficial uses of the water and does not result in exceeding applicable water quality objectives in the receiving waters as indicated in Regional Board's "Incidental Runoff of Recycled Water" dated February 24, 2004.

Sanitary Waste Treatment Plants:

The Sanitary Waste Treatment Plants employs biological nitrification process in order to effectively remove Biological Oxygen Demand (BOD) and Total Suspended Solids (TSS) from the incoming sewage. Key factors which affect the nitrification process are nitrogen concentration, BOD concentration, alkalinity, temperature, and potential toxic compounds. Since the natural alkalinity of the incoming sewage is insufficient for acid production during the energy yielding oxidation process of biological nitrification at the Waste Treatment Plants 1 and 2, low pH levels and a detrimental effect on BOD and TSS removal is resulted. El Segundo Power, LLC is requesting the Regional Board's permission to increase the alkalinity of the incoming sewage by installing a sodium bicarbonate (baking soda) feed system. Based on historical observations, a sodium bicarbonate demand of approximately 1 to 5 pounds per day is adequate for the sodium bicarbonate feed system.

Water saturated with sodium bicarbonate will be fed into the activated sludge process on a timed basis to maintain the alkalinity above 100 mg/l. using a “saturator”. The saturator will be a 55 gallon drum outfitted with an automatic water valve controlled by a programmable logic controller (PLC), and a water diffuser that disperses supply water at the bottom of the drum. The drum will be kept full of water to the overflow point and have about 24 inches of reserve powdered sodium bicarbonate sitting at the bottom. Automatically opening the automatic fill valve on a timed basis such as 15 seconds every hour will introduce small amount of fresh water that will become saturated with sodium bicarbonate at the bottom of the drum, while simultaneously pushing an equal quantity of already saturated water out the overflow and into the activated sludge process. Powdered sodium bicarbonate will be manually replenished as needed based on the level in the bottom of the saturator. The corresponding sodium bicarbonate MSDS sheets are included in this attachment.

Foam Generation:

As indicated in Section 1.0 of the Facility Operation Description, an application for a permit to replace Units 1 and 2 with new generating units is pending approval at the California Energy Commission. The Intake No. 1 cooling water system for Units 1 & 2 continues to operate for cooling, treated sewage discharge, and maintenance purposes at the existing facility. However, Intake No. 1 is currently operating at relatively lower flow levels, contributing to the naturally occurring generation of foam at Discharge Serial Number 001. Rather than mechanically removing the foam, El Segundo Power, LLC proposes to spray seawater over open areas of the discharge to prevent the foam from being formed in the first place. By this permit renewal application, El Segundo Power, LLC requests the Regional Board’s approval in using seawater to prevent foam generation.

# MATERIAL SAFETY DATA SHEET

## SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer:  
Bioscience Inc.  
1550 Valley Center Parkway, Suite 140  
Brockton, PA 08117

Creation Date: 3/00  
Review Date: 7/02  
Information Phone Number: 800-627-3009  
Emergency Phone Number: 800-434-6330

Commercial Product Name: MICROCAT®-AL Pond and Lake Treatment  
Chemical Characterization:

## SECTION II - COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredient by wt.	CAS Number	TLV (ACGIH)	PEL (OSHA)
Diatoms	420 16389-88-1	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Crystalline silica	4012 14808-60-7	0.1 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>
Aluminum sulfate	420 10043-01-3		TWA:2 mg/m <sup>3</sup>
Non-Hazardous Ingredients:			
Microbes and enzymes adsorbed on wheat bran	685(9-35-3)	10 mg/m <sup>3</sup> (inhalable dust)	
Color: Tan	Form: Crystalline Powder	Odor: Mild Odor	

## SECTION III - HAZARD IDENTIFICATION AND FIRST AID PROCEDURES

INHALATION:	May cause irritation of respiratory tract. Avoid vigorous handling which may result in dust generation. If inhaled, remove from contaminated area to fresh air. Report situation. Seek medical attention if allergic response exhibited.
EYE CONTACT:	May cause eye injury. In case of contact with eyes, flush eyes with low pressure water for at least 15 minutes and seek medical attention.
SKIN CONTACT:	It is recommended that prolonged direct contact with skin be avoided. In case of contact with skin, wash skin with soap and water. Remove contaminated clothing and wash.
SWALLOWING:	Ingestion of material may cause gastric disturbance. If swallowed, rinse mouth and throat with tap water.

## SECTION IV - FIRE FIGHTING MEASURES

Flash Point:	Not Available	Temperature Limits:	Not Available
Extinguishing Media:	Dry chemical, carbon dioxide, water spray or foam.		

## SECTION V - ACCIDENTAL RELEASE MEASURES

AFTER SPILLAGE:	Spilled product should be removed immediately to avoid formation of dust. Store in suitable container. Wash dust with water. Dispose to landfill. Provide sufficient ventilation.
FIRST AID:	In case of contact with skin, wash with soap and water. If symptoms occur, seek medical attention. In case of contact with eyes, rinse with plenty of water for at least 15 minutes and see an eye specialist if irritation persists. In case of inhalation, remove to fresh air. In case of ingestion, drink water. If symptoms occur, seek medical assistance.

## SECTION VI - PERSONAL PROTECTION/HANDLING AND STORAGE

### RECOMMENDED PROTECTIVE MEASURES:

Avoid formation of dust. Provide adequate ventilation of the room when handling this product. Provide eyewear capability.

**RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT:****RESPIRATORY PROTECTION:** Dust mask**SKIN PROTECTION:** Wear long-sleeve shirt, trousers, safety shoes, gloves**EYE PROTECTION:** Safety goggles**INDUSTRIAL HYGIENE:** Maintain good housekeeping. Avoid dusty conditions. Wash hands and exposed skin after contact. Avoid contact with food or food preparation surfaces. Remove and wash contaminated clothing.**PROTECTION AGAINST FIRE AND EXPLOSIONS:** No special requirements**SECTION VII - PHYSICAL PROPERTIES**

Solubility in Water: ~10% of product is water soluble

Alternative Solvent: N/A

pH Value (1% aq.): N/A

**SECTION VIII - TOXICOLOGICAL INFORMATION**

Inhalation of dust resulting from inappropriate handling may cause respiratory allergy in susceptible individuals.

Carcinogenicity: Crystalline silica probably carcinogenic

NTP: x

IARC Monographs: x

OSHA Regulated:

**SECTION IX - INFORMATION ON ECOLOGICAL EFFECTS**Application of product to potential drinking water sources shall not exceed residual aluminum concentration of 2 mg/L<sup>1</sup>.**SECTION X - DISPOSAL CONSIDERATIONS**

Disposal: Dispose of in accordance with current local authority regulations

**SECTION XI - TRANSPORT CLASSIFICATION**

DOT Hazard Class: N/A

DOT Label: N/A

DOT Proper Shipping Name: Chemicals not otherwise listed (CNO) non-hazardous

**SECTION XII - REGULATORY INFORMATION****SECTION XIII - FURTHER INFORMATION**

The information contained in this Safety Data Sheet, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use of this product. The information on this sheet does not represent analytical specifications; for this information contact Bioscience, Inc., Technical Department.



**Bioscience**

Environmental Products and Services

ISO 9002 CERTIFIED

Bioscience Inc.

[Bioscience@BioscienceInc.com](mailto:Bioscience@BioscienceInc.com)

(610) 974-9693 or (800) 627-3069

Fax (610) 691-2170

1550 Valley Center Parkway, Suite 140  
Bethlehem, PA 18017

*Wastewater Analysis/Biotreatment The Best of Both Worlds*

## **MICROCAT® - AL**

### **POND AND LAKE TREATMENT**

#### **DESCRIPTION:**

**MICROCAT-AL** Bioformula for Pond and Lake Treatment is a synergistic blend of preselected, adapted microorganisms for use in maintaining the clarity in water receiving bodies including lakes, fish farms, facultative lagoons, polishing ponds, etc. and in other slow-moving water channels. It is not recommended for controlling slime buildup on surfaces or for controlling plants and weeds. **MICROCAT-AL** is available in various forms suited to a wide variety of applications for suspended solids.

#### **APPLICATIONS:**

Treatment systems handling municipal, commercial, fish-farming, industrial and food processing wastes from time to time encounter difficulties in achieving desired effluent quality (especially excess suspended solids). This is especially true in sunny, warm climates. **MICROCAT-AL** is formulated with natural microbes and flocculant aids for pond and lake maintenance. **MICROCAT-AL** contains a combination of aerobic and facultative anaerobic microorganisms selected from nature for their ability to maintain clarity in used waters and to prompt settling of solids in slow moving, shallow water bodies.



#### **PRODUCT CHARACTERISTICS:**

<b>Appearance</b>	Light beige, granular powder
<b>Contents</b>	Natural, preselected, adapted microorganisms and flocculant aids
<b>Nominal Microbe Count</b>	$>3 \times 10^9$ / gram
<b>ShelfLife</b>	Two Years
<b>Packaging</b>	25 Lb (11.3 Kg) plastic pails/220 Lb (100 Kg) fiber drums

#### **APPLICATION PROGRAMS:**

In general, **MICROCAT-AL** is applied directly to the water body on a regular, preventive maintenance basis for controlling finely divided suspended solids. It is not recommended for controlling slime layers on surfaces or for weeds and/or plants or stagnant pools.

Application programs range from about 25 pounds (11.3 kg) per MGD (3785 m<sup>3</sup>/day) per day for quick system recovery to one pound (0.45 kg) per MGD (3785 m<sup>3</sup>/day) per day for prevention. Your Bioscience, Inc. Technical Representative will provide you with a custom tailored application program to fit the specific needs of your treatment system.

#### **OPTIMAL APPLICATION CONDITIONS**

For best results, apply this product under the following conditions:

<b>CONDITION</b>	<b>RANGE</b>	<b>OPTIMUM</b>
Dissolved Oxygen, ppm	0 - Saturation	0.5+
pH	6 - 9	7
Temperature, °C	10 - 40	35
Toxic Heavy Metals, ppm	Trace	Trace

If your system is operating outside these ranges, contact your Bioscience Inc. Technical Representative for a complete system survey and recommendations.

#### **STORAGE AND HANDLING**

<b>Storage</b>	45° - 105° F (7° - 40° C) Dry conditions. DO NOT FREEZE.
<b>Handling</b>	<b>CAUTION</b> <b>Active enzymes</b> <b>present. Avoid</b> <b>inhalation of dry</b> <b>powder or liquid mist.</b> <b>Avoid exposing skin to</b> <b>dry powder or strong</b> <b>solution as irritation</b> <b>may result. If material</b> <b>contacts skin or eyes,</b> <b>flush thoroughly and</b> <b>repeatedly with water.</b>

**MICROCAT** is a registered trademark of Bioscience, Inc.

**DISCLAIMER:** The information contained in this data sheet is a guide to the use of **MICROCAT** products and is based on tests and other information believed to be reliable. All information is given to and accepted by user at user's risk and confirmation of its validity and suitability to particular cases should be obtained independently. Bioscience, Inc. makes no guarantee of results and assumes no obligation or liability in connection with the information contained herein. Bioscience, Inc. does not warrant against infringement of, and this data sheet is not to be construed as a license to operate under, any patents.

### **BIOSCIENCE, INC.**

1550 Valley Center Parkway, Suite 140 - Bethlehem, PA 18017 - (610) 974-9693 - Fax (610) 691-2170

E-mail: [bioscience@bioscienceinc.com](mailto:bioscience@bioscienceinc.com) - Website: [www.bioscienceinc.com](http://www.bioscienceinc.com)



**Bioscience**

Environmental Products and Services

**ISO 9002 CERTIFIED**

070302

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Revised: April 28, 2003 .

# MATERIAL SAFETY DATA SHEET

## Sodium Bicarbonate



MSDS Ref. No.: 144-55-3

Date Approved: 01/26/2004

Revision No.: 3

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200, the Canada's Workplace Hazardous Materials Information System (WHMIS) and, the EC Directive, 2001/58/EC.

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME:</b>	Sodium Bicarbonate
<b>SYNONYMS:</b>	Baking Soda, Bicarbonate of Soda
<b>GENERAL USE:</b>	Leavening agent, cleaner ingredient, bath salt ingredient, water softener, diaper rinse ingredient, feed additive.
	This chemical is certified to ANSI/NSF Standard 60, Drinking Water Chemicals-Health Effects (as packaged in the original, unopened container). The maximum dosage level for this chemical is 100 mg/l.

### MANUFACTURER

FMC Wyoming Corporation  
Alkali Chemicals Division  
1735 Market Street  
Philadelphia, PA 19103  
(215) 299-6300 (General Information)

### EMERGENCY TELEPHONE NUMBERS

(800) 424-9300 (CIPMETREC - U.S.)  
(303) 595-3048 (Medical - Cal. Cellnet)  
(307) 872-2452 (Plant - Green River, WY)

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW:

- White, odorless, granular solid.
- Product is non-combustible.
- Reacts with acids to release carbon dioxide gas and heat.

**POTENTIAL HEALTH EFFECTS:** No significant health effects anticipated.

---

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Wt. %	EC No.	EC Class
Sodium Bicarbonate	144-55-8	100	205-623-8	Not classified as hazardous

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### 4. FIRST AID MEASURES

**EYES:** Flush with plenty of water. Get medical attention if irritation occurs and persists.

**SKIN:** Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

**INGESTION:** Drink plenty of water. Never give anything by mouth to an unconscious person. If any discomfort persists, obtain medical attention.

**INHALATION:** Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.

**NOTES TO MEDICAL DOCTOR:** Internal toxicity is low. Treatment is symptomatic and supportive.

---

### 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Water, water fog, carbon dioxide (CO<sub>2</sub>), dry chemical

**FIRE / EXPLOSION HAZARDS:** None

**FIRE FIGHTING PROCEDURES:** None

**FLAMMABLE LIMITS:** Not applicable

**HAZARDOUS COMBUSTION PRODUCTS:** None

**SENSITIVITY TO IMPACT:** None

**SENSITIVITY TO STATIC DISCHARGE:** None

---

## 6. ACCIDENTAL RELEASE MEASURES

**COMMENTS:** PERSONAL PRECAUTIONS: Refer to Section 8 "Exposure Controls / Personal Protection".

**CLEAN-UP:** This product, if spilled, can be recovered and re-used if contamination does not present a problem. Vacuum or sweep up the material. If the spilled product is unusable due to contamination, consult state or federal environmental agencies for acceptable disposal procedures and locations. See Section 13 "Disposal Considerations".

**NOTIFICATION REQUIREMENTS:** Federal regulations do not require notification for spills of this product. State and local regulations may contain different requirements; consult local authorities.

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## 7. HANDLING AND STORAGE

**HANDLING:** Use air conveying/mechanical systems for bulk transfer to storage. For manual handling of bulk transfer use mechanical ventilation to remove airborne dust from railcar, ship or truck. Use approved respiratory protection when ventilation systems are not available. Selection of respirators is based on the dust cloud generated.

**STORAGE:** Store in a cool dry area, away from acids.

**COMMENTS:** Use general room dilution or local exhaust ventilation when excessive dust is expected in the work environment.

---

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Where possible, provide general mechanical and/or local exhaust ventilation to prevent release of airborne dust into the work environment.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Appropriate eye and face protection equipment (ANSI Z87 approved) should be selected for the particular use intended for this material. Safety glasses with side shields are recommended.

**RESPIRATORY:** Whenever dust in the worker's breathing zone cannot be controlled with ventilation or other engineering means, workers should wear respirators or dust masks approved by NIOSH/MSHA, EU CEN or comparable certification organization to protect them against airborne dust.

**PROTECTIVE CLOTHING:** Dry product is generally non-irritating to intact skin. However, this product can be irritating where skin has been damaged and can create skin irritation.

after long exposures when moisture is present. Under such conditions, gloves and long-sleeved clothing are recommended to minimize skin contact.

## COMMENTS:

### ADDITIONAL EXPOSURE GUIDELINES:

Federal guidelines treat the ingredient(s) in this product as a nuisance dust, as no product specific guidelines have been issued for exposure. As with all nuisance dusts, worker breathing zone concentrations should be measured by validated sampling and analytical methods. The following limits (OSHA and MSHA) apply to this material:

Particulates Not Otherwise Regulated:

OSHA (PEL / TWA): 15 mg/m<sup>3</sup> (total dust); 5 mg/m<sup>3</sup> (resp. fraction)

MSHA (PF1 / TWA): 10 mg/m<sup>3</sup> (total dust)

The information listed above provides general guidance for handling this product. Specific work environments and material handling practices will dictate the selection and use of personal protection equipment (PPE).

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR:	Odorless
APPEARANCE:	White, granular solid.
AUTOIGNITION TEMPERATURE:	Not applicable
BOILING POINT:	Not applicable
COEFFICIENT OF OIL / WATER:	Not available
DENSITY / WEIGHT PER VOLUME:	0.88 g/ml.
EVAPORATION RATE:	Not applicable (Butyl Acetate = 1)
FLASH POINT:	Non-combustible
MELTING POINT:	Decomposes
ODOR THRESHOLD:	Not applicable
OXIDIZING PROPERTIES:	Not applicable
PERCENT VOLATILE:	Not available
pH:	8.3 (1% solution)
SOLUBILITY IN WATER:	% by wt. @ 20°C (68°F): 9.0
SPECIFIC GRAVITY:	(H <sub>2</sub> O = 1) 2.20
VAPOR DENSITY:	Not applicable (Air = 1)

VAPOR PRESSURE:

Not available

---

## 10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID:

Contact with acids except under controlled conditions

STABILITY:

Stable

POLYMERIZATION:

Will not occur

INCOMPATIBLE MATERIALS:

Reacts with acids to release carbon dioxide gas and heat

HAZARDOUS DECOMPOSITION PRODUCTS: None

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## 11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Non-irritating (rabbit) J. Amer. Coll. Toxicol., 1987

SKIN EFFECTS: Non-irritating (rabbit) J. Amer. Coll. Toxicol., 1987

DERMAL LD<sub>50</sub>: No data available for the product.ORAL LD<sub>50</sub>: 20% slurry: 4,350 mg/kg (rat)

50 % slurry: 6,000 mg/kg (rat)

Gosselin, Smith &amp; Hodge, Clinical Tox. of Comm. Products, 1984

INHALATION LC<sub>50</sub>: No data available for the product.

TARGET ORGANS: None

**ACUTE EFFECTS FROM OVEREXPOSURE:** This product, when dry, is generally non-irritating to intact skin. However, when moisture is present, it can be irritating to damaged skin and can create irritation after long exposures. This product is approved for use as a food ingredient and is Generally Recognized As Safe (GRAS). No significant acute toxicological effects expected.

**CHRONIC EFFECTS FROM OVEREXPOSURE:** Administration of large doses of sodium bicarbonate to patients with renal insufficiency can produce systemic alkalosis.

**CARCINOGENICITY:**

NTP:	Not listed
IARC:	Not listed
OSHA:	Not listed
OTHER:	(ACGIH) Not listed

---

## 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** 48 hr LC<sub>50</sub> = 2000 mg/l. (Culex sp. larvae or mosquito)

**CHEMICAL FATE INFORMATION:** No data available for the product.

---

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** When this product is discarded or disposed of, as purchased, it is neither a characteristic nor a listed hazardous waste according to U.S. Federal RCRA regulations (40 CFR 261). As a non-hazardous waste the material may be disposed of in a landfill in accordance with government regulations; check local or state regulations for applicable requirements prior to disposal. Any processing, usage, alteration, chemical additions to, or contamination of, the product may alter the disposal requirements. Under Federal regulations, it is the generator's responsibility to determine if a waste is a hazardous waste.

---

## 14. TRANSPORT INFORMATION

### U.S. DEPARTMENT OF TRANSPORTATION (DOT)

PROPER SHIPPING NAME:	Not regulated
PRIMARY HAZARD CLASS / DIVISION:	Not applicable
UN/NA NUMBER:	None
LABEL(S):	Not applicable
PLACARD(S):	Not applicable
MARKING(S):	Not applicable
ADDITIONAL INFORMATION:	Hazardous Substance/RQ: Not applicable 49 STCC Number: Not applicable

## **INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)**

**ADDITIONAL INFORMATION:**

Not regulated

## **ADR - EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD**

**ADDITIONAL INFORMATION:**

Not regulated

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## **15. REGULATORY INFORMATION**

### **UNITED STATES**

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355, APPENDIX A):**

Not listed

**SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370):**

The Threshold Planning Quantity (TPQ) for this product, if treated as a mixture, is 10,000 lbs.; however, this product contains the following ingredients with a TPQ of less than 10,000 lbs.:

No TPQ for this product

**SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):**

Not listed

**CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND  
LIABILITY ACT)**

**CERCLA DESIGNATION & REPORTABLE QUANTITIES (RQ) (40 CFR 302.4):**

Not applicable

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA INVENTORY STATUS (40 CFR 710):**

Listed

**RESOURCE CONSERVATION AND RECOVERY ACT (RCRA)**

**RCRA IDENTIFICATION OF HAZARDOUS WASTE (40 CFR 261):**

Waste Number: Refer to Section 13 "Disposal Considerations" for RCRA status.

**CANADA****WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):**

Product Identification Number: None  
 Hazard Classification / Division: None  
 Ingredient Disclosure List: Not Listed

**COMMENTS:**

CLEAN WATER ACT (CWA) - SECTION 307 / 311  
 Not listed as a hazardous pollutant (40 CFR 116), nor as a toxic pollutant (40 CFR 401.15)

CLEAN AIR ACT (CAA) - SECTION 112  
 Not regulated under the chemical accident prevention provisions (40 CFR 58)

**16. OTHER INFORMATION****HMIS**

Health	0
Flammability	0
Physical Hazard	0
Personal Protection (PPE)	B

Protection - B (Safety glasses and gloves)

HMIS - Hazardous Materials Identification System

Degree of Hazard Code:

4 - Severe  
 3 - Serious  
 2 - Moderate  
 1 - Slight  
 0 - Minimal

**NFPA**

Health	0
Flammability	0
Reactivity	0
Special	None

No special requirements

NFPA - National Fire Protection Association

Degree of Hazard Code:

4 - Extreme  
 3 - High  
 2 - Moderate  
 1 - Slight  
 0 - Insignificant

**REVISION SUMMARY:**

Changes in information are as follows:

New Format, as well as text changes and/or updates to one or more Sections of this MSDS.

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PORT NUMBER: 703

UNIVAR USA INC.

PAGE: 001

IS NO: 0X622680

MATERIAL SAFETY DATA SHEET

INFRAME UPLOAD DATE: 07/26/04

VERSION: 018

PRODUCT: LIQUICHLOR / SODIUM HYPOCHLORITE 9-16%

ORDER NO: 366793

PROD NO : 170240

ONDECO NALCO CO  
C/O EL SEGUNDO POWER LLC  
301 VISTA DEL MAR

EL SEGUNDO ,CA 90245

UNIVAR USA INC.  
10000 CARRIAGE POINT , KIRKLAND

(425)889-3400  
, WA 98033

----- EMERGENCY ASSISTANCE -----

FOR EMERGENCY ASSISTANCE INVOLVING CHEMICALS CALL - CHEMTREC  
(800)424-9300

PRODUCT NAME: LIQUICHLOR / SODIUM HYPOCHLORITE 9-16%

IS NUMBER: 0X622680

EFFECTIVE DATE: 2/16/2004

REVISED: 1/15/2003

REVISION BY: 007427

#### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SODIUM HYPOCHLORITE SOLUTION (9 - 16%)

#: 7681-52-9

SYNOMS: SODIUM HYPOCHLORITE SOLUTION - TRADE % (9 - 19), BLEACH, JAVEL  
ER, CLOROX, SUNNY SOL 150, LIQUID CHLORINE SOLUTION, LIQUID BLEACH,  
HYPOCHLORITE BLEACH, HYPO

PRODUCT USE: BLEACH, DISINFECTANT

EMERGENCY CONTACTS (24 HR.)

FOR INFORMATION REGARDING ON SITE CHEMICAL EMERGENCIES INVOLVING A SPILL  
LEAK, CALL

1-800-424-9300 - CHEMTREC

1-613-996-6666 - CANUTEC

DISTRIBUTED BY:

PORT NUMBER: 703

UNIVAR USA INC.

PAGE: 002

IS NO: 0X62Z680

MATERIAL SAFETY DATA SHEET

INFRAME UPLOAD DATE: 07/26/04

VERSION: 018

PRODUCT: LIQUICHLOR / SODIUM HYPOCHLORITE 9-16%

ORDER NO: 366793

PROD NO : 170240

UNIVAR USA INC.  
10 CARILLON POINT  
KLAND, WA 98033  
1-889-3400

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT(S)	% (W/W)	ACGIH	OSHA	CAS NO.
SODIUM HYPOCHLORITE	9 - 16	NOT ESTABLISHED 0.5 PPM (AS CHLORINE)	NOT ESTABLISHED	7681-52-9
SODIUM HYDROXIDE	0.3 - 4	2 MG/M3 (CEILING)	2 MG/M3	1310-73-2

SECTION 3 HAZARD IDENTIFICATION

AGENCY OVERVIEW: CORROSIVE! CONTACT WITH ACID LIBERATES TOXIC CHLORINE GAS. CAUSES BURNS TO SKIN, EYES, RESPIRATORY TRACT AND MUCOUS MEMBRANES. DANGEROUS OR FATAL IF SWALLOWED. MAY CAUSE SENSITIZATION BY SKIN CONTACT. TOXIC TO AQUATIC ORGANISMS. READ THE ENTIRE MSDS FOR A MORE THOROUGH EVALUATION OF THE HAZARDS.

POTENTIAL HEALTH EFFECTS:

INHALATION: MIST CAN IRRITATE THE NOSE AND THROAT. IF MIXED WITH ACIDS, HYPOCHLORITE SOLUTIONS RELEASE LARGE AMOUNTS OF CHLORINE GAS. THIS GAS CAN CAUSE SEVERE IRRITATION OF THE NOSE AND THROAT. EXPOSURE TO HIGH LEVELS OF CHLORINE GAS MAY RESULT IN SEVERE LUNG DAMAGE.

SKIN CONTACT: SODIUM HYPOCHLORITE MIST AND SOLUTIONS CAN CAUSE SKIN IRRITATION. IN SEVERE CASES, CHEMICAL BURNS MAY RESULT.

EYE CONTACT: CAN CAUSE SEVERE EYE IRRITATION AND PERMANENT EYE INJURY.

INGESTION: MAY CAUSE IRRITATION, PAIN AND INFLAMMATION OF THE MOUTH AND THROAT, VOMITING, SHOCK, CONFUSION, DELIRIUM, COMA AND, IN SEVERE CASES, PERFORATION OF THE ESOPHAGUS OR STOMACH MAY OCCUR.

CHRONIC EFFECTS: SKIN: PROLONGED OR REPEATED SKIN CONTACT WITH SOLUTIONS CONTAINING AS LITTLE AS 4-6% SODIUM HYPOCHLORITE CAN CAUSE ALLERGIC CONTACT DERMATITIS. SYMPTOMS INCLUDE CHRONIC, ITCHY ECZEMA. SENSITIZED PEOPLE CAN REACT TO VERY DILUTE (0.04-0.06% NaOCl) SOLUTIONS THAT TOUCH THEIR SKIN. EXISTING MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE: SKIN IRRITATION MAY BE AGGRAVATED IN INDIVIDUALS WITH EXISTING SKIN LESIONS. BREATHING OF GASES OR MISTS MAY AGGRAVATE ACUTE OR CHRONIC ASTHMA AND CHRONIC PULMONARY DISEASE SUCH AS EMPHYSEMA AND BRONCHITIS.

CARCINOGENICITY: SODIUM HYPOCHLORITE IS NOT CLASSIFIED AS A CARCINOGEN BY NTP (AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS) OR IARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER), NOT REGULATED AS A CARCINOGEN BY OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION), AND NOT LISTED AS A CARCINOGEN BY NTP (NATIONAL TOXICOLOGY PROGRAM).

SECTION 4 FIRST AID MEASURES

GENERAL: IF YOU FEEL UNWELL SEEK MEDICAL ADVICE (SHOW THE LABEL WHERE AVAILABLE).

INHALATION: MOVE VICTIM TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION ONLY IF

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BATHING HAS STOPPED. DO NOT USE MOUTH-TO-MOUTH METHOD IF VICTIM INGESTED OR INHALED THE SUBSTANCE: INDUCE ARTIFICIAL RESPIRATION WITH THE AID OF A VENTILATOR MASK EQUIPPED WITH A ONE-WAY VALVE OR OTHER PROPER RESPIRATORY PROTECTIVE DEVICE. GIVE CARDIOPULMONARY RESUSCITATION (CPR) ONLY IF THERE IS NO PULSE AND NO BREATHING. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

ON CONTACT: IMMEDIATELY FLUSH SKIN WITH RUNNING WATER FOR AT LEAST 15 - 20 MINUTES. UNDER RUNNING WATER REMOVE CONTAMINATED CLOTHING, JEWELRY, AND ACCESSORIES. IF IRRITATION PERSISTS, REPEAT FLUSHING. FOR BURNS, OBTAIN MEDICAL ATTENTION. DISCARD HEAVILY CONTAMINATED CLOTHING AND SHOES IN A MANNER, WHICH LIMITS FURTHER EXPOSURE. OTHERWISE, WASH CLOTHING SEPARATELY BEFORE REUSE.

ON CONTACT: IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR A MINIMUM OF 20 MINUTES. HOLD EYELIDS OPEN DURING FLUSHING. IF IRRITATION PERSISTS, REPEAT FLUSHING. OBTAIN MEDICAL ATTENTION IMMEDIATELY. DO NOT TRANSPORT VICTIM UNTIL THE RECOMMENDED FLUSHING PERIOD IS COMPLETED UNLESS FLUSHING CAN BE CONTINUED DURING TRANSPORT.

INGESTION: DO NOT INDUCE VOMITING. IF VICTIM IS ALERT AND NOT CONVULSING, USE MOUTH AND GIVE AS MUCH WATER AS POSSIBLE TO DILUTE MATERIAL. IF SPONTANEOUS VOMITING OCCURS, HAVE VICTIM LEAN FORWARD WITH HEAD DOWN TO PREVENT ASPIRATION OF VOMITUS, RINSE MOUTH AND ADMINISTER MORE WATER. IMMEDIATELY TRANSPORT VICTIM TO AN EMERGENCY FACILITY.

RECOMMENDATIONS TO PHYSICIANS: SYMPTOMATIC. TREATMENT AND SUPPORTIVE THERAPY AS INDICATED. DO NOT GIVE ACIDIC ANTIDOTES SUCH AS JUICE, SOFT DRINK, VINEGAR, ETC. THIS PRODUCT CONTAINS MATERIALS THAT MAY CAUSE SEVERE PNEUMONITIS IF INGESTED. IF INGESTION HAS OCCURRED LESS THAN 2 HOURS EARLIER, CARRY OUT EFFICIENT GASTRIC LAVAGE; USE ENDOTRACHEAL CUFF IF AVAILABLE, TO PREVENT ASPIRATION. OBSERVE PATIENT FOR RESPIRATORY DIFFICULTY FROM ASPIRATION PNEUMONITIS. GIVE ARTIFICIAL RESUSCITATION AND APPROPRIATE CHEMOTHERAPY IF RESPIRATION IS DEPRESSED. FOLLOWING EXPOSURE THE PATIENT SHOULD BE KEPT UNDER MEDICAL REVIEW FOR AT LEAST 48 HOURS AS DELAYED PNEUMONITIS MAY OCCUR. PLEURAL EDEMA IS LIKELY AND MAY BE DELAYED. STEROID THERAPY, IF GIVEN EARLY, MAY BE EFFECTIVE IN PREVENTING OR ALLEVIATING EDEMA.

## SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT: NOT APPLICABLE. NOT COMBUSTIBLE

FLAMMABLE LIMITS (LOWER): NOT APPLICABLE

FLAMMABLE LIMITS (UPPER): NOT APPLICABLE

AUTOIGNITION TEMPERATURE: NOT APPLICABLE

COMBUSTION AND THERMAL DECOMPOSITION PRODUCTS: CHLORINE, SODIUM OXIDE, SODIUM CHLORIDE

HEAT OF BURNING: NOT APPLICABLE

EXPLOSIVE POWER: NOT APPLICABLE

SENSITIVITY TO MECHANICAL IMPACT: NOT APPLICABLE

REACTIVITY AND EXPLOSION HAZARDS: SODIUM HYPOCHLORITE IS A STRONG CHEMICAL OXIDANT, BUT SOLUTIONS DO NOT SUPPORT COMBUSTION. REACTION WITH NITROGEN COMPOUNDS, CHLOROORGANIC COMPOUNDS, OR EASILY OXIDIZABLE COMPOUNDS (REDUCING AGENTS) MAY BE EXPLOSIVE. THIS MATERIAL IS NON-FLAMMABLE BUT IS DECOMPOSED

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HEAT AND LIGHT, CAUSING A PRESSURE BUILD-UP, WHICH COULD RESULT IN AN EXPLOSION. WHEN HEATED, IT MAY RELEASE CHLORINE GAS. VIGOROUS REACTION WITH OXIDIZABLE OR ORGANIC MATERIALS MAY RESULT IN FIRE. SEE SECTION 10.

EXTINGUISHING MEDIA: FOR LARGE FIRES USE AN ALL PURPOSE TYPE AFFF ALCOHOL RESISTANT MEDIUM EXPANSION ACCORDING TO FOAM MANUFACTURER'S RECOMMENDED TECHNIQUES. THE FOAM SUPPLIER SHOULD BE CONSULTED FOR RECOMMENDATIONS REGARDING FOAM TYPES AND DELIVERY RATES FOR SPECIFIC APPLICATIONS. USE CARBON DIOXIDE OR DRY CHEMICAL MEDIA FOR SMALL FIRES. IF ONLY WATER IS AVAILABLE, USE IT IN THE FORM OF A FOG.

SPECIAL INFORMATION: WATER MAY BE USED TO COOL CONTAINERS OF HYPOCHLORITE SOLUTION EXPOSED TO HEAT FROM A FIRE. THIS SHOULD BE DONE FROM A SAFE DISTANCE SINCE CONTAINERS MAY RUPTURE.

REMOVE CONTAINERS FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK. DIKE FIRE WITH WATER FOR LATER DISPOSAL; DO NOT SCATTER THE MATERIAL.

FIRES INVOLVING TANKS OR TRAILER LOADS: FIGHT FIRE FROM MAXIMUM DISTANCE OR WITH UNMANNED HOSE HOLDERS OR MONITOR NOZZLES. DO NOT GET WATER INSIDE CONTAINERS. COOL CONTAINERS WITH FLOODING QUANTITIES OF WATER UNTIL WELL AFTER FIRE IS OUT. WITHDRAW IMMEDIATELY IN CASE OF RISING SOUND FROM VENTING DEVICES OR DISCOLORATION OF TANK. ALWAYS STAY AWAY FROM THE ENDS OF TANKS.

ISOLATION: IF TANK OR TANK TRUCK INVOLVED IN A FIRE, ISOLATE AND CONSIDER ISOLATION OF ONE-HALF (1/2) MILE RADIUS.

FIGHTING PROTECTIVE EQUIPMENT: FIREFIGHTERS SHOULD WEAR PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE IN A FIRE INVOLVING THIS MATERIAL. TOXIC GASES AND VAPORS ARE PRODUCED UPON DECOMPOSITION.

SEE ALSO SEE "SECTION 10 - STABILITY AND REACTIVITY"

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILLS, LEAKS, OR RELEASES:

RESTRICT ACCESS TO AREA UNTIL COMPLETION OF CLEAN UP. ENSURE TRAINED PERSONNEL CONDUCT CLEAN UP.

REMOVE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS OR FLAMES). ALL EQUIPMENT SHOULD BE GROUNDED AND NON-SPARKING. VENTILATE AREA.

WEAR ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. DO NOT TOUCH SPILLED MATERIAL. STOP LEAK IF POSSIBLE WITHOUT PERSONAL RISK.

SMALL SPILLS: COVER WITH DRY EARTH, SAND OR OTHER NON-COMBUSTIBLE MATERIAL. USE CLEAN NON-SPARKING TOOLS TO COLLECT MATERIAL AND PLACE IT INTO LOOSELY COVERED PLASTIC CONTAINERS FOR LATER DISPOSAL. RINSE AREA WITH WATER.

LARGE SPILLS: PREVENT ENTRY INTO SEWERS AND CONFINED AREAS. DIKE WITH INERT MATERIAL (SAND, EARTH, ETC.). CONTACT FIRE AND EMERGENCY SERVICES AND CONSULT FOR ADVICE. COLLECT PRODUCT FOR RECOVERY OR DISPOSAL BY PUMPING IT INTO POLYETHYLENE CONTAINERS. CONSIDER IN-SITU NEUTRALIZATION AND DISPOSAL. ENSURE ADEQUATE DECONTAMINATION OF TOOLS AND EQUIPMENT FOLLOWING CLEAN UP. TEST CONTAMINATED SOIL AND WATER, AND ABSORBENT FOR PROPER DISPOSAL. COMPLY WITH FEDERAL, PROVINCIAL/STATE AND LOCAL REGULATIONS ON REPORTING RELEASES.

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ACTIVATION FOR SMALL SPILLS: HYPOCHLORITE CAN BE BROKEN DOWN BY COVERING WITH A REDUCING AGENT SUCH AS SODIUM SULFITE OR SODIUM THIOSULFATE. ACTIVATING CHEMICALS: USE SODIUM SULFITE OR DILUTED HYDROGEN PEROXIDE TO REDUCE THE MATERIAL. ENSURE THERE IS NO CHLORINE RESIDUE BEFORE NEUTRALIZING WITH A WEAK SOLUTION OF HYDROCHLORIC OR SULFURIC ACID.

WASTE DISPOSAL METHODS: DISPOSE OF WASTE MATERIAL AT AN APPROVED WASTE TREATMENT/DISPOSAL FACILITY, IN ACCORDANCE WITH APPLICABLE REGULATIONS. DO NOT DISPOSE OF WASTE WITH NORMAL GARBAGE OR TO SEWER SYSTEMS.

NOTE: - CLEAN-UP MATERIAL MAY BE A RCRA HAZARDOUS WASTE ON DISPOSAL.  
- SPILLS ARE SUBJECT TO CERCLA REPORTING REQUIREMENTS: RQ = 100 LBS.

## SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS: HAVE EMERGENCY EQUIPMENT (FOR FIRES, SPILLS, LEAKS, ETC.) IMMEDIATELY AVAILABLE. ENSURE ALL CONTAINERS ARE LABELED. WEAR APPROPRIATE PERSONAL PROTECTION EQUIPMENT. PEOPLE WORKING WITH THIS CHEMICAL SHOULD BE PROPERLY TRAINED REGARDING ITS HAZARDS AND ITS SAFE USE.

HANDLING PROCEDURES AND EQUIPMENT: AVOID GENERATING MIST. USE SMALLEST POSSIBLE AMOUNTS IN DESIGNATED AREAS WITH ADEQUATE VENTILATION. KEEP CONTAINERS CLOSED WHEN NOT IN USE. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES. USE CORROSION-RESISTANT TRANSFER EQUIPMENT WHEN DISPENSING.

STORAGE REQUIREMENTS: STORE IN A COOL, DRY, WELL-VENTILATED AREA, OUT OF DIRECT SUNLIGHT. STORE CONTAINERS AT 15 - 29 DEG C (59 - 84 DEG F). DO NOT STORE ABOVE 30 DEG C (86 DEG F) OR BELOW FREEZING POINT. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE AND WHEN EMPTY. PROTECT FROM DAMAGE. VENTILATION SHOULD BE CHECKED WITH FULL PERSONAL PROTECTION. STORE AWAY FROM INCOMPATIBLE MATERIALS SUCH AS REDUCING MATERIALS, STRONG ACIDS, NITROGEN COMPOUNDS, COPPER, NICKEL AND COBALT. USE CORROSION-RESISTANT STRUCTURAL MATERIALS AND LIGHTING AND VENTILATION SYSTEMS IN THE STORAGE AREA. THIS PRODUCT HAS A SHELF LIFE OF UP TO SIX MONTHS AT 60 DEG F OR LOWER.

INDOOR STORAGE TANKS SHOULD BE SUITABLY DIKED OR OTHERWISE PROVIDED WITH AN ADEQUATE MEANS OF SECONDARY CONTAINMENT. APPROPRIATE SECONDARY CONTAINMENT MEASURES SHOULD BE TAKEN TO PREVENT SPILLS OR LEAKS FROM INDOOR STORAGE TANKS AND TANK-TRUCK UNLOADING STATIONS FROM ENTERING SEWERS OR OTHER DRAINAGE CHANNELS THAT DISCHARGE DIRECTLY TO A WATER BODY OR A MUNICIPAL SEWAGE TREATMENT PLANT.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION PREVENTIVE MEASURES

RECOMMENDATIONS LISTED IN THIS SECTION INDICATE THE TYPE OF EQUIPMENT, WHICH WILL PROVIDE PROTECTION AGAINST OVER EXPOSURE TO THIS PRODUCT. CONDITIONS OF WORK, ADEQUACY OF ENGINEERING OR OTHER CONTROL MEASURES, AND ACTUAL EXPOSURES WILL DICTATE THE NEED FOR SPECIFIC PROTECTIVE DEVICES AT YOUR WORKPLACE.

ENGINEERING CONTROLS: LOCAL EXHAUST VENTILATION SHOULD BE APPLIED WHEREVER THERE IS AN INCIDENCE OF POINT SOURCE EMISSIONS OR DISPERSION OF REGULATED CONTAMINANTS IN THE WORK AREA. VENTILATION CONTROL OF THE CONTAMINANT AS CLOSE TO ITS POINT OF GENERATION IS BOTH THE MOST ECONOMICAL AND SAFEST METHOD TO MINIMIZE PERSONNEL EXPOSURE TO AIRBORNE CONTAMINANTS. THE MOST EFFECTIVE MEASURES ARE THE TOTAL ENCLOSURE OF PROCESSES AND THE

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MANIZATION OF HANDLING PROCEDURES TO PREVENT ALL PERSONAL CONTACT.  
SMOKING SHOULD BE PROHIBITED IN AREAS IN WHICH SODIUM HYPOCHLORITE SOLUTION  
STORED OR HANDLED.

## PERSONAL PROTECTIVE EQUIPMENT

FACE PROTECTION: WEAR SPLASH RESISTANT CHEMICAL GOGGLES AND FULL-FACE SHIELD.  
EYE WASH: MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA.

SKIN PROTECTION: WEAR IMPERVIOUS PROTECTIVE CLOTHING, INCLUDING BOOTS,  
GLOVES, LAB COAT, APRON, RAIN JACKET, PANTS OR COVERALLS, AS APPROPRIATE, TO  
PREVENT SKIN CONTACT.

RECOMMENDED RESISTANCE TO BREAKTHROUGH LONGER THAN 8 HOURS: BUTYL RUBBER,  
NATURAL RUBBER, NEOPRENE, NITRILE RUBBER, POLYETHYLENE, VITON, SARANEXTM,  
SPONDERTM

RECOMMENDATIONS ARE VALID FOR PERMEATION RATES REACHING 0.1 UG/CM<sup>2</sup>/MIN OR 1  
CM<sup>2</sup>/MIN AND OVER. RESISTANCE OF SPECIFIC MATERIALS CAN VARY FROM PRODUCT  
TO PRODUCT. BREAKTHROUGH TIMES ARE OBTAINED UNDER CONDITIONS OF CONTINUOUS  
CONTACT, GENERALLY AT ROOM TEMPERATURE. EVALUATE RESISTANCE UNDER CONDITIONS  
OF USE AND MAINTAIN CLOTHING CAREFULLY.

RESPIRATORY PROTECTION: A NIOSH/MSHA APPROVED AIR-PURIFYING RESPIRATOR  
EQUIPPED WITH ACID MIST CARTRIDGES FOR CONCENTRATIONS UP TO 10 TIMES THE  
OCCURRENCE. USE A SUPPLIED AIR RESPIRATOR IF CONCENTRATIONS ARE HIGHER OR UNKNOWN.

## EXPOSURE GUIDELINES PRODUCT:

SODIUM HYPOCHLORITE

REPLACE ENVIRONMENTAL EXPOSURE LEVEL GUIDES (WEELS) / AMERICAN INDUSTRIAL  
HYGIENE ASSOCIATION (AIHA) / 2001 SHORT-TERM TIME WEIGHTED AVERAGE ;  
8 HOURS / 15 MINUTE

	SODIUM HYPOCHLORITE	CHLORINE*	SODIUM HYDROXIDE
8 H TWA	NOT ESTABLISHED	0.5 PPM	NOT ESTABLISHED
A PEL	NOT ESTABLISHED	0.5 PPM	2 MG/M3
SH IDLH	NOT ESTABLISHED	10 PPM	NOT ESTABLISHED
8 H STEL	NOT ESTABLISHED	1 PPM	NOT ESTABLISHED
A STEL	NOT ESTABLISHED	1 PPM AS CL <sub>2</sub>	NOT ESTABLISHED
SH (15 MIN. CEILING)	NOT ESTABLISHED	0.5 PPM	NOT ESTABLISHED
8 H CEILING	NOT ESTABLISHED	NOT ESTABLISHED	2 MG/M3

CHLORINE MAY BE PRESENT AS A DECOMPOSITION PRODUCT.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

CHEMICAL NAME SODIUM HYPOCHLORITE

CHEMICAL FAMILY HYPOCHLOROUS ACID SALT

CHEMICAL FORMULA NA-O-CL

MOLECULAR WEIGHT 74.4

APPEARANCE GREEN TO YELLOW, WATERY LIQUID

ODOR PUNGENT CHLORINE-LIKE ODOR

11-15

VAPOR PRESSURE (MM HG AT 21 DEG C (69.8 DEG F)) 12 MMHG

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FOR DENSITY (AIR = 1) NO DATA  
Melting Point DECOMPOSES ABOVE 40 DEG C (104 DEG F)  
Freezing Point 7.5 DEG F (-13.6 DEG C)  
Solubility (WATER) COMPLETELY  
Specific Gravity ABOUT 1.198 (12.5% W/W SOLUTION) @ 20 DEG C (68 DEG F)  
Evaporation Rate NOT AVAILABLE  
Volatile by Volume NOT AVAILABLE

## SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: STABLE AT ROOM TEMPERATURE.  
Hazardous Decomposition Products: THERMAL DECOMPOSITION: CHLORINE, SODIUM  
Oxide, OXYGEN, OXIDES OF CHLORINE, SODIUM CHLORATE, AND HYDROGEN.  
Conditions to Avoid: KEEP AWAY FROM HIGH HEAT, AND SUNLIGHT OR ULTRA-VIOLET  
LIGHT. DO NOT STORE ABOVE 30 DEG C (86 DEG F). DO NOT ALLOW SOLUTIONS TO  
Evaporate DRY. KEEP AWAY FROM INCOMPATIBLES.  
Compatibility with Other Substances: MAY REACT VIOLENTLY WITH STRONG ACIDS  
Producing CHLORINE GAS, WHICH IS TOXIC. OTHER INCOMPATIBLES INCLUDE ORGANIC  
Material, CELLULOSE, OXIDIZABLE MATERIALS, AMMONIA, UREA, AMMONIUM SALTS,  
HYDROXYLAMINE, CYANIDES, NITROGEN COMPOUNDS, ALCOHOLS, METALS, AND METAL  
Oxides. REACTS WITH METALS TO PRODUCE FLAMMABLE HYDROGEN GAS. METAL AND  
Metal Oxide CATALYSTS DECOMPOSE HYPOCHLORITES, EVOLVING OXYGEN AND OFTEN  
Causing EXPLOSIONS. MAY REACT EXPLOSIVELY WITH NITROGEN CONTAINING COMPOUNDS  
Form CHLORAMINES, WHICH ARE EXPLOSIVE. ALKALINE HYPOCHLORITE SOLUTIONS  
REACT EXPLOSIVELY WITH SOME CHLOROORGANIC COMPOUNDS.  
Hazardous to Metals: SOLUTIONS CAN BE CORROSIVE TO MANY METALS.  
Hazardous Polymerization: WILL NOT OCCUR.

## SECTION 11 - TOXICOLOGICAL INFORMATION

## TOXICOLOGICAL DATA

## SODIUM HYPOCHLORITE:

Toxicity Data: TDLO (LOWEST PUBLISHED TOXIC DOSE) ORAL-WOMAN- 1 GM/KG  
45 MG/KG INTRAVENOUS-MAN TDLO  
LD50 ORAL RAT- 8910 MG/KG  
LD50 ORAL MOUSE- 5800 MG/KG  
LC50 RAT- >10500 MG/M3 (1 HR)

irritation Data: EYES: ONE DROP OF 15% SOLUTION (PH 11.2) CAUSED IMMEDIATE  
Eye PAIN. IF NOT QUICKLY WASHED OFF WITH WATER, IT CAUSED BLEEDING AND  
Swelling OF THE TENDER TISSUE SURROUNDING THE EYE (CONJUNCTIVA) AND DAMAGE  
With Swelling TO THE FRONT PART OF THE EYE (CORNEA). THE EYES SOMETIMES  
Healed IN TWO TO THREE WEEKS WITH SLIGHT OR NO SCAR DAMAGE TO THE CORNEA.  
Skin: A SOLUTION OF 3.5% NADCL APPLIED TO RABBIT SKIN FOR 15 OR 30 MINUTES  
Caused SEVERE SKIN DAMAGE.

## SODIUM HYDROXIDE:

irritation Data: 500 MG/24 HOUR(S) SKIN-RABBIT SEVERE; 400 PG EYES-RABBIT  
Severe; 1 PERCENT EYES-RABBIT SEVERE;  
Toxicity Data: 1350 MG/KG SKIN-RABBIT LD50; 104-340 MG/KG ORAL-RAT LD50

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MUTAGENICITY: SODIUM HYPOCHLORITE CAUSED MUTATIONS IN SEVERAL SHORT-TERM ASSAYS USING BACTERIA AND CULTURED MAMMALIAN CELLS. THE SIGNIFICANCE OF THESE TESTS IS UNCLEAR. IT WAS NOT MUTAGENIC IN TESTS (CHROMOSOME ABERRATION AND MICRONUCLEUS) ON LIVE ANIMALS.

REPRODUCTIVE EFFECTS: HIGH DOSES OF NaOCL IN DRINKING WATER CAUSED A SMALL BUT SIGNIFICANT INCREASE IN ABNORMAL SPERM IN MICE.

TERATOGENICITY AND FETOTOXICITY: NO DATA AVAILABLE

CARCINOGENICITY: SEE SECTION 3, PAGE 2.

ALLERGIC MATERIALS: NONE KNOWN

#### SECTION 12 - ECOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: HARMFUL TO AQUATIC LIFE IN LOW CONCENTRATIONS.

AQUATIC TOXICITY: LC50 (48 HR) RAINBOW TROUT 0.07 MG/L.

LC50 (96 HR) FATHEAD MINNOW 5.9 MG/L.

ACUTE TERRESTRIAL AND MICROBIAL TOXICITY: LOEC ONCORHYNCHUS KISUTCH 0.02 MG/L.

PERSISTENCE AND DEGRADATION: NO DATA AVAILABLE.

#### SECTION 13- DISPOSAL CONSIDERATIONS

REVIEW FEDERAL, STATE AND LOCAL GOVERNMENT REQUIREMENTS PRIOR TO DISPOSAL.

DONOT DISPOSE OF WASTE WITH NORMAL GARBAGE, OR TO SEWER SYSTEMS.

WASTE NEVER CANNOT BE SAVED FOR RECOVERY OR RECYCLING. INCLUDING CONTAINERS MUST BE MANAGED IN AN APPROPRIATE AND APPROVED WASTE DISPOSAL FACILITY.

PROCESSING, USE OR CONTAMINATION OF THIS PRODUCT MAY CHANGE THE WASTE MANAGEMENT OPTIONS.

ALWAYS TEST WASTE MATERIAL FOR CORROSIVITY, D002, PRIOR TO DISPOSAL.

#### SECTION 14 TRANSPORT INFORMATION

PROPER SHIPPING NAME	TDG CLR : HYPOCHLORITE SOLUTION - WITH MORE THAN 7 PERCENT AVAILABLE CHLORINE	DOT HYPOCHLORITE SOLUTION
HAZARD CLASS / DIVISION	8: CORROSIVE	8: CORROSIVE
IDENTIFICATION NO.	UN1791	UN1791
	II	III
P/RQ	N/AP	N/AP

NOTE: \* TDG CLR (CLEAR LANGUAGE REGULATIONS) BECAME EFFECTIVE AUGUST 15, 2002

TDG/ICAO SHIPPING DESCRIPTION: HYPOCHLORITE SOLUTION, CLASS 8, UN1791, PG I OR III IS ACCEPTED FOR AIR TRANSPORT.

#### SECTION 15 - REGULATORY INFORMATION

CLASSIFICATION

HAZARD CLASSIFICATION: HAZARDOUS BY DEFINITION OF HAZARD COMMUNICATION

REGULATORY (29 CFR 1910.1200)

HAZARD REGULATIONS SECTIONS 313 AND 40 CFR 372: N

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HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21):

ITE: Y

IONIC: N

IE: N

ACTIVE: N

OPEN RELEASE: N

HAZARD PROCESS SAFETY (29CFR1910.119): N

HAZARD SECTION 103 (40CFR302.4): Y

PORTABLE QUANTITY (RQ) UNDER CERCLA: 100 LBS. (45.4 KG)

HAZARD INVENTORY STATUS: Y

HAZARD REGULATIONS/LEGISLATION WHICH APPLY TO THIS PRODUCT:

HAZARD TO-KNOW/DISCLOSURE LISTS: ILLINOIS, MASSACHUSETTS, NEW JERSEY, PENNSYLVANIA,

HAZARD PRODUCT DOES NOT CONTAIN NOR IS IT MANUFACTURED WITH OZONE DEPLETING SUBSTANCES.

#### HAZARD ADIAN CLASSIFICATION

HAZARD PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CFR (CONTROLLED PRODUCTS REGULATIONS) AND THIS MSDS (MATERIAL SAFETY DATA SHEET) CONTAINS ALL THE INFORMATION REQUIRED BY THE CFR.

CONTROLLED PRODUCTS REGULATIONS (WHMIS) CLASSIFICATION:

HAZARD : MATERIAL CAUSING OTHER TOXIC EFFECTS -TOXIC  
CORROSIVE

HAZARD / CANADIAN DOMESTIC SUBSTANCES LIST (DSL): Y

HAZARD IS INGREDIENT DISCLOSURE LIST: MEETS CRITERIA FOR DISCLOSURE AT 1% OR GREATER.

ECS NUMBER: 231-668-3

#### HAZARD TION 16 - OTHER INFORMATION

HAZARD IONAL FIRE PROTECTION ASSOCIATION (NFFA) RATING

HAZARD ARDUS MATERIALS IDENTIFICATION SYSTEM (HMIS) RATING

NFFA HMIS

HAZARD LTH 3 3

HAZARD E 0 0

HAZARD CTIVITY 1 1

4 = EXTREME/SEVERE

3 = HIGH/SERIOUS 2 = MODERATE

1 = SLIGHT

0 = MINIMUM

W = WATER REACTIVE

END

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AH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS  
CAS - CHEMICAL ABSTRACTS SERVICE REGISTRY NUMBER  
CERCLA - COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY  
CFR - CODE OF FEDERAL REGULATIONS  
DOT - DEPARTMENT OF TRANSPORTATION  
EPA - ENVIRONMENTAL PROTECTION AGENCY  
IDLH - IMMEDIATELY DANGEROUS TO LIFE AND HEALTH  
LC50 - THE CONCENTRATION OF MATERIAL IN AIR EXPECTED TO KILL 50% OF A GROUP  
TEST ANIMALS  
LD50 - LETHAL DOSE EXPECTED TO KILL 50% OF A GROUP OF TEST ANIMALS  
MSHA - MINE SAFETY AND HEALTH ADMINISTRATION  
NIOSH - NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH  
OSHA - OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION  
PEL - PERMISSIBLE EXPOSURE LIMIT  
PVC - POLYVINYL CHLORIDE  
RCA - RESOURCE CONSERVATION AND RECOVERY ACT  
SARA - SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF THE U.S. EPA  
SEL - SHORT TERM EXPOSURE LIMIT  
TDCA - TRANSPORTATION OF DANGEROUS GOODS ACT/REGULATIONS  
TLV - THRESHOLD LIMIT VALUE  
TSCA - TOXIC SUBSTANCES CONTROL ACT

PORT NUMBER: 703

UNIVAR USA INC.

PAGE: 011

IS NO: 0X622680

MATERIAL SAFETY DATA SHEET

INFRAME UPLOAD DATE: 07/26/04

VERSION: 018

PRODUCT: LIQUICHLOR / SODIUM HYPOCHLORITE 9-16%

ORDER NO: 366793

PROD NO : 170240

----- FOR ADDITIONAL INFORMATION -----

CONTACT: MSDS COORDINATOR

UNIVAR USA INC.

DURING BUSINESS HOURS, PACIFIC TIME

(425)889-3400

08/25/04 15:38

PRODUCT: 170240

CUST NO: 545376

ORDER NO: 366793

----- NOTICE -----

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***Section 5.0***  
***EPA Form 2C***  
***Appendix B***  
***Application Sampling and Analysis Laboratory Report***



SOUTHERN CALIFORNIA  
**EDISON**

An EDISON INTERNATIONAL Company

## ANALYTICAL REPORT

Laboratory Name:  
Address:

Power Production Chemical  
7301 Fenwick Lane, 2nd Floor  
Westminster, CA 92683-5202

Telephone:  
Facsimile:

(714) 895-0525  
(714) 895-0511

Laboratory Certification (ELAP) No.:

1949 Expires 12/30/05

Laboratory Director's Name:

Shawn S. Simptons

Laboratory Director's Signature:

Date

CLIENT:  
ADDRESS:

NRG El Segundo Operations Inc.  
301 Vista Del Mar  
El Segundo, CA 90245

DATE(S) SAMPLED:  
DATE(S) RECEIVED:

8/9/02 and 8/10/04  
08/10/04

Chan of Curriculum Received. Yes



SOUTHERN CALIFORNIA  
**EDISON**

An EDISON INTERNATIONAL Company

## ANALYTICAL REPORT

### Cover Page 2

NRG P.O. E107095

<u>Inorganic Analyses</u>	# of Samples	# of Samples Subcontracted
Cl <sub>2</sub> Tot., in field	36	0
pH	36	0
Oil and Grease	36	0
TSS	4	0
Nitrite-Nitrate-N	4	0
Color	4	0
Sulfate	4	0
Sulfide	4	0
Sulfite	4	0
Magnesium	4	0
HOD	4	4
COD	4	4
TOC	4	4
Ammonia-N	4	4
Bromide	4	4
Total/Fecal Coliform	36	36
Fluoride	4	4
Nitrogen, Total Organic	4	4
Phosphorus, Total	4	4
Radioactivity, Total Alpha	4	4
Radioactivity, Total Beta	4	4
Radioactivity, Total Radium	4	4
Radioactivity, Radium 226	4	4
Surfactants	4	4
Trace Metals in Seawater	4	4
Cyanide	36	36
Phenols	36	36
<u>Organic Analyses</u>	# of Samples	# of Samples Subcontracted
VOC's	20	20
SVOC's	4	4
Dioxin	4	4
Pesticides/PCBs	4	4
Sample Condition:	Acceptable	

## Power Production Chemical Test Results

NPDES No. CA0001147

UNITS 1 AND 2	DATE/TIME COLLECTED	DATE ANALYZED	PARAMETER	METHOD	RI (mg/L)	Total Chlorine (mg/L)
Units 1&2 Intake	8/9/04 15:55	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Outfall	8/9/04 16:20	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Intake	8/9/04 18:15	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Outfall	8/9/04 18:38	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Intake	8/9/04 20:50	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Outfall	8/9/04 21:00	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Intake	8/9/04 23:40	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Outfall	8/10/04 0:00	08/10/04	Chlorine Residual	SM 4500-Cl G	0.04	ND
Units 1&2 Intake	8/10/04 2:55	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Outfall	8/10/04 3:15	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Intake	8/10/04 5:55	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Outfall	8/10/04 6:15	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Intake	8/10/04 9:15	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Outfall	8/10/04 8:55	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Intake	8/10/04 11:55	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Outfall	8/10/04 12:15	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Intake	8/10/04 14:55	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Outfall	8/10/04 15:15	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND

UNITS 1 AND 2	DATE/TIME COLLECTED	DATE ANALYZED	PARAMETER	METHOD	PH (mg/L)	PH (mg/L)
Units 1&2 Intake	8/9/04 15:55	08/09/04	Electrometric pH	EPA 150.1	0.01	7.87 at 21.1°C
Units 1&2 Outfall	8/9/04 16:20	08/09/04	Electrometric pH	EPA 150.1	0.01	8.04 at 20.4°C
Units 1&2 Intake	8/9/04 18:15	08/09/04	Electrometric pH	EPA 150.1	0.01	8.08 at 20.0°C
Units 1&2 Outfall	8/9/04 18:38	08/09/04	Electrometric pH	EPA 150.1	0.01	8.08 at 19.3°C
Units 1&2 Intake	8/9/04 20:50	08/09/04	Electrometric pH	EPA 150.1	0.01	8.12 at 18.6°C
Units 1&2 Outfall	8/9/04 21:00	08/09/04	Electrometric pH	EPA 150.1	0.01	8.12 at 18.5°C
Units 1&2 Intake	8/9/04 23:40	08/09/04	Electrometric pH	EPA 150.1	0.01	8.14 at 18.6°C
Units 1&2 Outfall	8/10/04 0:00	08/10/04	Electrometric pH	EPA 150.1	0.01	8.18 at 18.7°C
Units 1&2 Intake	8/10/04 2:55	08/10/04	Electrometric pH	EPA 150.1	0.01	8.13 at 17.8°C
Units 1&2 Outfall	8/10/04 3:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.17 at 18.1°C
Units 1&2 Intake	8/10/04 5:55	08/10/04	Electrometric pH	EPA 150.1	0.01	8.16 at 18.8°C
Units 1&2 Outfall	8/10/04 6:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.18 at 18.8°C
Units 1&2 Intake	8/10/04 9:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.02 at 17.3°C
Units 1&2 Outfall	8/10/04 8:55	08/10/04	Electrometric pH	EPA 150.1	0.01	8.02 at 17.3°C
Units 1&2 Intake	8/10/04 11:55	08/10/04	Electrometric pH	EPA 150.1	0.01	8.06 at 18.9°C
Units 1&2 Outfall	8/10/04 12:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.05 at 19.6°C
Units 1&2 Intake	8/10/04 14:55	08/10/04	Electrometric pH	EPA 150.1	0.01	7.99 at 19.0°C
Units 1&2 Outfall	8/10/04 15:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.09 at 17.9°C

## Power Production Chemical Test Results

NPDES No. CA0001147

UNITS 3 AND 4	DATE TIME COLLECTED	DATE ANALYZED	PARAMETER	METHOD	RES. (mg/L)	Total Chlorine (mg/L)
Units 3&4 Intake	8/9/04 15:20	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Outfall	8/9/04 14:45	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Intake	8/9/04 17:55	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Outfall	8/9/04 17:30	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Intake	8/9/04 20:20	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Outfall	8/9/04 20:35	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Intake	8/9/04 23:15	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Outfall	8/9/04 23:25	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Intake	8/10/04 2:15	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Outfall	8/10/04 2:35	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Intake	8/10/04 5:15	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Outfall	8/10/04 5:35	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Intake	8/10/04 8:15	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Outfall	8/10/04 8:35	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Intake	8/10/04 11:15	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Outfall	8/10/04 11:35	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Intake	8/10/04 14:15	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Outfall	8/10/04 14:35	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND

UNITS 3 AND 4	DATE TIME COLLECTED	DATE ANALYZED	PARAMETER	METHOD	MEAS. (pH)	TEMP. (°C)
Units 3&4 Intake	8/9/04 15:20	08/09/04	Electrometric pH	EPA 150.1	0.01	8.14 at 22.0°C
Units 3&4 Outfall	8/9/04 14:45	08/09/04	Electrometric pH	EPA 150.1	0.01	8.11 at 24.1°C
Units 3&4 Intake	8/9/04 17:55	08/09/04	Electrometric pH	EPA 150.1	0.01	8.10 at 21.2°C
Units 3&4 Outfall	8/9/04 17:30	08/09/04	Electrometric pH	EPA 150.1	0.01	8.14 at 22.3°C
Units 3&4 Intake	8/9/04 20:20	08/09/04	Electrometric pH	EPA 150.1	0.01	8.18 at 19.2°C
Units 3&4 Outfall	8/9/04 20:35	08/09/04	Electrometric pH	EPA 150.1	0.01	8.13 at 19.4°C
Units 3&4 Intake	8/9/04 23:15	08/09/04	Electrometric pH	EPA 150.1	0.01	8.18 at 19.1°C
Units 3&4 Outfall	8/9/04 23:25	08/09/04	Electrometric pH	EPA 150.1	0.01	8.20 at 19.2°C
Units 3&4 Intake	8/10/04 2:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.18 at 18.6°C
Units 3&4 Outfall	8/10/04 2:35	08/10/04	Electrometric pH	EPA 150.1	0.01	8.14 at 18.6°C
Units 3&4 Intake	8/10/04 5:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.18 at 18.8°C
Units 3&4 Outfall	8/10/04 5:35	08/10/04	Electrometric pH	EPA 150.1	0.01	8.20 at 19.3°C
Units 3&4 Intake	8/10/04 8:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.02 at 19.9°C
Units 3&4 Outfall	8/10/04 8:35	08/10/04	Electrometric pH	EPA 150.1	0.01	8.02 at 20.0°C
Units 3&4 Intake	8/10/04 11:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.09 at 19.5°C
Units 3&4 Outfall	8/10/04 11:35	08/10/04	Electrometric pH	EPA 150.1	0.01	8.10 at 19.0°C
Units 3&4 Intake	8/10/04 14:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.10 at 19.7°C
Units 3&4 Outfall	8/10/04 14:35	08/10/04	Electrometric pH	EPA 150.1	0.01	8.13 at 19.5°C

Sample	Sample Date	Sample Time	Sample Type	Sample ID	Oil and Grease	Oil and Grease
Units 1&2 Intake	8/9/04	15:55	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Outfall	8/9/04	16:20	Oil and Grease	EPA 1664A LLE	1.4	2.4
Units 1&2 Intake	8/9/04	18:15	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Outfall	8/9/04	18:38	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Intake	8/9/04	20:50	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Outfall	8/9/04	21:00	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Intake	8/9/04	23:40	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Outfall	8/10/04	0:00	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Intake	8/10/04	2:55	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Outfall	8/10/04	3:15	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Intake	8/10/04	5:55	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Outfall	8/10/04	6:15	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Intake	8/10/04	9:15	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Outfall	8/10/04	8:55	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Intake	8/10/04	11:55	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Outfall	8/10/04	12:15	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Intake	8/10/04	14:55	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Outfall	8/10/04	15:15	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Intake	8/9/04	15:20	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Outfall	8/9/04	14:45	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Intake	8/9/04	17:55	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Outfall	8/9/04	17:30	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Intake	8/9/04	20:20	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Outfall	8/9/04	20:35	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Intake	8/9/04	23:15	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Outfall	8/9/04	23:25	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Intake	8/10/04	2:15	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Outfall	8/10/04	2:35	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Intake	8/10/04	5:15	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Outfall	8/10/04	5:35	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Intake	8/10/04	8:15	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Outfall	8/10/04	8:35	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Intake	8/10/04	11:15	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Outfall	8/10/04	11:35	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Intake	8/10/04	14:15	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Outfall	8/10/04	14:35	Oil and Grease	EPA 1664A LLE	1.4	ND
Method Blank		08/20/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Method Blank		08/27/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Method Blank		08/31/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Method Blank		09/01/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Method Blank		09/02/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Method Blank		09/03/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Method Blank		09/07/04	Oil and Grease	EPA 1664A LLE	1.4	ND

Sample	Sample Date	Sample Time	Sample Type	Sample ID	Oil and Grease	Oil and Grease
Units 1&2 Intake	8/9 to 8/10/04		Total Susp. Solids	SM 2540 D	2.0	11.4
Units 1&2 Outfall	8/9 to 8/10/04		Total Susp. Solids	SM 2540 D	2.0	9.0

## Power Production Chemical Test Results

INTEGRITY PROGRAM

Units 3&4 Intake	8/9 to 8/10/04		Total Susp. Solids	SM 2540 D	2.0	ND
Units 3&4 Outfall	8/9 to 8/10/04		Total Susp. Solids	SM 2540 D	2.0	
Method Blank	8/9 to 8/10/04		Total Susp. Solids	SM 2540 D	1.0	

## Power Production Chemical Test Results

NPDES No. CA0001147

Sample	Sampling Period	Sample Date	Parameter	Method	Result	Limit
Units 1&2 Intake C.	8/9 to 8/10/04	08/11/04	Color	SM 2120 B	5	ND
Units 1&2 Outfall C.	8/9 to 8/10/04	08/11/04	Color	SM 2120 B	5	ND
Units 3&4 Intake C.	8/9 to 8/10/04	08/11/04	Color	SM 2120 B	5	ND
Units 3&4 Outfall C.	8/9 to 8/10/04	08/11/04	Color	SM 2120 B	5	ND

Sample	Sampling Period	Sample Date	Parameter	Method	Result	Limit
Units 1&2 Intake C.	8/9 to 8/10/04	08/11/04	Nitrite-Nitrate-N	EPA 300.0	1	ND
Units 1&2 Outfall C.	8/9 to 8/10/04	08/11/04	Nitrite-Nitrate-N	EPA 300.0	1	ND
Units 3&4 Intake C.	8/9 to 8/10/04	08/11/04	Nitrite-Nitrate-N	EPA 300.0	1	ND
Units 3&4 Outfall C.	8/9 to 8/10/04	08/11/04	Nitrite-Nitrate-N	EPA 300.0	1	ND
Method Blank		08/11/04	Nitrite-Nitrate-N	EPA 300.0	1	ND

Sample	Sampling Period	Sample Date	Parameter	Method	Result	Limit
Units 1&2 Intake C.	8/9 to 8/10/04	08/11/04	Sulfate	EPA 300.0	200	2550
Units 1&2 Outfall C.	8/9 to 8/10/04	08/11/04	Sulfate	EPA 300.0	200	2560
Units 3&4 Intake C.	8/9 to 8/10/04	08/11/04	Sulfate	EPA 300.0	200	2580
Units 3&4 Outfall C.	8/9 to 8/10/04	08/11/04	Sulfate	EPA 300.0	200	2590
Method Blank		08/11/04	Sulfate	EPA 300.0	2	ND

Sample	Sampling Period	Sample Date	Parameter	Method	Result	Limit
Units 1&2 Intake C.	8/9 to 8/10/04	08/11/04	Sulfite	SM 4500-SO <sub>3</sub> <sup>2-</sup> B	1	ND
Units 1&2 Outfall C.	8/9 to 8/10/04	08/11/04	Sulfite	SM 4500-SO <sub>3</sub> <sup>2-</sup> B	1	ND
Units 3&4 Intake C.	8/9 to 8/10/04	08/11/04	Sulfite	SM 4500-SO <sub>3</sub> <sup>2-</sup> B	1	ND
Units 3&4 Outfall C.	8/9 to 8/10/04	08/11/04	Sulfite	SM 4500-SO <sub>3</sub> <sup>2-</sup> B	1	ND

Sample	Sampling Period	Sample Date	Parameter	Method	Result	Limit
Units 1&2 Intake C.	8/9 to 8/10/04	08/11/04	Sulfide	SM 4500-S <sup>2-</sup> D	0.02	ND
Units 1&2 Outfall C.	8/9 to 8/10/04	08/11/04	Sulfide	SM 4500-S <sup>2-</sup> D	0.02	ND
Units 3&4 Intake C.	8/9 to 8/10/04	08/11/04	Sulfide	SM 4500-S <sup>2-</sup> D	0.02	ND
Units 3&4 Outfall C.	8/9 to 8/10/04	08/11/04	Sulfide	SM 4500-S <sup>2-</sup> D	0.02	ND

Sample	Sampling Period	Sample Date	Parameter	Method	Result	Limit
Units 1&2 Intake C.	8/9 to 8/10/04	08/12/04	Total Magnesium	SM 3111B	40	1190
Units 1&2 Outfall C.	8/9 to 8/10/04	08/12/04	Total Magnesium	SM 3111B	40	1190
Units 3&4 Intake C.	8/9 to 8/10/04	08/12/04	Total Magnesium	SM 3111B	40	1190
Units 3&4 Outfall C.	8/9 to 8/10/04	08/12/04	Total Magnesium	SM 3111B	40	1160
Method Blank		08/12/04	Total Magnesium	SM 3111B	0.02	ND

Sample ID: 040712-0101 Sample						
Parameter	Date	Location	Conc./Lit. Conc.	Conc./Lit. Conc.	%	Range
Nitrate-N WP-III	08/11/04		5.46	5.69	104%	79-119%
Sulfate IKA 506	08/11/04		34.6	34.6	100%	85-115%
Oil and Grease OPR	08/27/04		40.0	37.5	94%	78-114%
Oil and Grease QA	08/31/04		28.0	27.1	97%	78-114%
Oil and Grease OPR	09/01/04		40.0	34.8	87%	78-114%
Oil and Grease OPR	09/03/04		4.0	3.7	93%	78-114%
Oil and Grease OPR	09/07/04		40.0	34.3	86%	78-114%

Sample ID: 040712-0102 Sample							
Parameter	Date	Location	Conc./Lit. Conc.	Conc./Lit. Conc.	%	Range	
Oil and Grease	07/20/04		LB-040712-RB-OG-1	40.0	42.5	106%	78-114%
Nitrate-N	08/11/04		Units 3&4 Outfall	5.00	5.17	103%	85-115%
Sulfate	08/11/04		Units 1&2 Outfall	10.0	10.0	100%	85-115%

PART A: POLLUTANT ANALYSES									
Parameter	Unit	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8
Dissolved Oxygen (DO)	mg/L	<0.1							
Overhead Oxygen Demand (HOD)	mg/L	56							
Total Organic Carbon (TOC)	mg/L	5.3							
Total Suspended Solids (TSS)	mg/L	23.6							
Ammonia Nitrogen	mg/L	<0.01							
Flow	mgd		51.8	51.8	51.8	51.8	51.8	51.8	51.8
Temperature	°F		20.4	19.2	19.5	18.7	18.1	18.3	19.6
			8.04	8.04	8.12	8.13	8.13	8.05	8.09
PART B: POLLUTANT ANALYSES									
Barium	mg/L	45							
Chloride Total Residue	mg/L		<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Copper	mg/L	<5							
Ferrous Iron	mg/L		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoride	mg/L	0.30							
Lead	mg/L	<1							
Nitrate Nitrogen	mg/L	0.56							
Nitrate, Total Organic Nitrogen	mg/L		<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Oil and Grease	mg/L								
Phosphorus (as P), Total	mg/L	0.10							
Reactivity, Total Alkalinity	mg/L	3.6							
Reactivity, Total Hardness	mg/L	3.9							
Sulfate	mg/L	0.037							
Sulfate, Total Residue	mg/L	1.14							
Sulfate, Total Residue 226	mg/L	2.56							
Sulfate (as SO4)	mg/L	0.012							
Sulfate as N	mg/L	<1							
Sulfate as SO3	mg/L	1.5							
Sulfate	mg/L	2.4							
Sulfate, Total	mg/L	5.17							
Total Total	mg/L	0.045							
Urea	mg/L	1.23							
Urea, Total	mg/L	1.65							
Urea, Total	mg/L	4.4							
Urea, Total	mg/L	1.58							
Urea, Total	mg/L	1.27							
Urea, Total	mg/L	1.46							
PART C: ANALYTICAL SUMMARY									
Ammonia Total	mg/L	0.11							
Arsenic, Total	mg/L	1.73							
Beryllium, Total	mg/L	0.009							
Cadmium, Total	mg/L	0.020							



















## ANALYTICAL REPORT

A04121

Lot #: B40110333

Shawn Simons

Southern California Edison Com

SEVERN TRENT LABORATORIES, INC.

Marisol Tabirara  
Project Manager

September 13, 2004

## EXECUTIVE SUMMARY - Detection Highlights

E4H110333

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL</u> <u>METHOD</u>
NO DETECTABLE PARAMETERS				

## METHODS SUMMARY

54H110244

<u>PARAMETER</u>	<u>ANALYTICAL</u> <u>METHOD</u>	<u>PREPARATION</u> <u>METHOD</u>
Volatile Organics by GC/MS	SWR46 325GH	SWR46 503GH/826

### References:

SWR46 'Test Methods for Evaluating Solid Waste, Physical/Chemical Methods', Third Edition, November 1986 and its updates.

# SAMPLE SUMMARY

R4H110337

WC #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GMX6R	001	1&2 INTAKE	08/09/04	18:35
GMX6G	002	1&2 OUTFALL	08/09/04	16:20
GMX6H	003	1&4 INTAKE	09/09/04	15:20
GMX6J	004	1&4 OUTFALL	09/09/04	14:45
GMX6K	005	1&2 INTAKE	08/09/04	20:50
GMX6L	006	1&2 OUTFALL	08/09/04	21:00
GMX6N	007	1&4 INTAKE	08/09/04	20:20
GMX6P	008	1&4 OUTFALL	08/09/04	20:35
GMX6Q	010	1&2 INTAKE	08/10/04	02:55
GMX6R	011	1&4 INTAKE	08/10/04	03:15
GMX6T	012	1&4 OUTFALL	08/10/04	02:10
GMX6V	013	1&2 INTAKE	08/10/04	02:45
GMX6W	014	1&2 OUTFALL	08/10/04	02:15
GMX6X	015	1&4 INTAKE	08/10/04	02:55
GMX6G	016	1&4 OUTFALL	08/10/04	02:15
GMX6I	017	1&2 INTAKE	08/10/04	08:35
GMX6J	018	1&2 OUTFALL	08/10/04	14:50
GMX6H	019	1&4 INTAKE	08/10/04	15:15
GMX6A	020	1&4 OUTFALL	08/10/04	14:15

## NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All water samples are performed before rounding to avoid round-off errors in calculated results.
- Results listed as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, conductivity, density, flashpoint, ignitability, layers, odor, pour point, test, pH, percent propane, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

## Southern California Edison Company

Client Sample ID: 162 INTAKE

## GC/MS Volatiles

Lab-Sample #: B18170353-001    Work Order #: G02XAE10A    Matrix: WATER  
 Date Sampled: 08/09/04 15:56    Date Received: 08/11/04 14:53    MS Run #: 4225302  
 Prep Date: 08/11/04    Analysis Date: 08/11/04  
 Prep Batch #: 4225466    Analysis Time: 23:20  
 Dilution Factor: 1  
 Analyst ID: 014550    Instrument ID: MSQ  
 Method: SW646 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MCL
Chloroethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Aromomethane	ND	2.0	ug/L	1.0
1,1-Dichloroethane	ND	1.0	ug/L	0.30
Methylene chloride	NC	1.0	ug/L	0.30
trans-1,2-Dichloroethane	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
Bromodichloroethane	NC	1.0	ug/L	0.30
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	1.0	ug/L	0.40
Tetrachloroethane	ND	1.0	ug/L	0.30
Bibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	NC	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Xylenes (total)	ND	1.0	ug/L	0.80
Vinyl chloride	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Acrylonitrile	ND	20	ug/L	10
2-Chloroethyl vinyl ether	NC	5.0	ug/L	2.0
Dichlorodifluoroethane	ND	2.0	ug/L	0.40
Trichlorofluoroethane	ND	2.0	ug/L	0.30

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	102	(75 - 130)
1,2-Dichloroethane-d4	105	(65 - 135)
Toluene-d8	104	(60 - 130)

Southern California Edison Company

142 INTAKE

GC/MS Volatiles

Job Sample #: E4H110431-001

Work Order #: 13X681A2

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS): TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESPONSE	RETENTION TIME	UNITS
Bis (Chloroethyl) Ether	542-88-1	ND	M	ug/L

NOTE(S):

VI. Result was measured against nearest Intertek standard assuming a response factor of 1.

## Southern California Edison Company

Client Sample ID: 162 DITFALL

## GC/MS volatiles

Lot-Sample #.... R4H110143-002    Work Order #.... GCMX601AA    Matrix..... WATER  
 Date Sampled.... 08/08/04 16:23    Date Received... 08/11/04 14:50    MS Run #..... 4225102  
 Prep Date..... 08/11/04    Analysis Date... 08/11/04  
 Prep Batch #.... 4225496    Analysis Time... 23:41  
 Dilution Factor: 1  
 Analyst ID..... 015590    Instrument ID... MSQ  
 Method..... SW846 6200A

PARAMETER	RESULT	LIMIT	UNITS	MDL
Chloroethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
1,1-Dichloroethane	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
trans-1,2 Dichloroethene	ND	1.0	ug/L	0.30
1,1 Dichloroethane	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
cis 1,2-Dichloropropane	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,1,2 Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
trans-1,3-Dichloropropane	ND	1.0	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.40
Vinyl chloride	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	10
Acrylonitrile	ND	20	ug/L	10
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
Trichlorofluoromethane	ND	2.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(75 - 140)
1,2-Dichloroethane-d4	103	(65 - 135)
Toluene-d8	103	(80 - 130)

Southern California Edison Company

142 OUTFALL

GC/MS Volatiles

Lot-Sample #: E91110135 50%      Work Order #: G00661AA      Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Bis (Chloromethyl) Ether	542-88-1	ND	M	ug/L

NOTES:

M: Result was measured against internal standard assuming a response factor of 1.

## Southern California Edison Company

Client Sample ID: 344 INTAKE

## GC/MS volatiles

Lot-Sample #....: B4E110434-003 Work Order #....: GMS041AA Matrix.....: WATER  
 Date Sampled....: 08/09/04 15:20 Date Received...: 08/11/04 14:50 MS Run #.....: 4225402  
 Prep Date.....: 08/11/04 Analysis Date...: 08/12/04  
 Prep Batch #....: 4275496 Analysis Time...: 00:02  
 Dilution Factor: 1  
 Analyst ID.....: 075590 Instrument ID...: MS0  
 Method.....: SW046 G160M

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MCL
Chloromethane	ND	2.0	ug/l	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	2.0
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
Chloroform	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
Carbon tetrachloride	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/l	0.30
Trichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/l	0.30
1,1,2-Trichloroethane	ND	1.0	ug/l	0.30
1,2-Dichloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/l	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.25
trans-1,3-Dichloropropene	ND	1.0	ug/l	0.50
Xylenes (total)	ND	1.0	ug/L	0.60
Vinyl chloride	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/l	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Acrylonitrile	ND	20	ug/L	10
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Dichlorodifluoromethane	ND	2.0	ug/L	1.40
Trichlorofluoromethane	ND	2.0	ug/L	0.30

SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
Bromofluorobenzene	102		175 - 1101	
1,2-Dichloroethane-d4	98		152 - 1331	
Toluene-d8	102		180 - 1101	

Southern California Edison Company

314 INTAKE

GC/MS Volatiles

Lot-Sample #: R4H110223 003

Work Order #: GSK6H1AA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS): TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Bis (Chloromethyl) Ether	942-09-1	ND	M	ug/l

NOTE(S):

M: Result was measured against internal standard assuming a response factor of 1.

## Southern California Edison Company

Client Sample ID: 364 OUTFALL

## GC/MS Volatiles

Lot-Sample #....: E4H10323-014    Work Order #....: GWX671AA    Matrix.....: WATER  
 Date Sampled....: 08/09/01 14:45    Date Received...: 08/11/01 14:20    MS Run #.....: 4235302  
 Prep Date.....: 08/11/01    Analysis Date...: 08/12/01  
 Prep Batch #....: 4225496    Analysis Time...: 00:23  
 Dilution Factor: 1  
 Analyst ID.....: 015590    Instrument ID...: MSQ  
 Method.....: SW846 8260B

PARAMETER	RESULT	LIMIT	UNITS	VOL
Chloromethane	ND	2.0	ug/l	0.30
Chloroethane	ND	2.0	ug/l	0.30
Bromoethane	ND	2.0	ug/l	1.1
1,1-Dichloroethene	ND	1.0	ug/l	0.30
Methylene chloride	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/l	0.20
Chloroform	ND	1.0	ug/l	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
Carbon tetrachloride	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/l	0.30
Trichloroethene	ND	1.0	ug/l	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
Bromodichloroethane	ND	1.0	ug/l	0.30
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
Toluene	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/l	0.30
1,2-Dichloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
trans-1,3-Dichloropropene	ND	1.0	ug/l	0.50
Xylenes (total)	ND	1.0	ug/L	0.60
Vinyl chloride	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Acrylonitrile	ND	20	ug/L	10
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
Trichlorofluoromethane	ND	2.0	ug/l	0.30

SUBSTRATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	175 - 120
1,2-Dichloroethane-d4	102	162 - 124
Toluene-d8	103	160 - 130

Southern California Edison Company

361 OUTFALL,

GC/MS Volatiles

Lot-Sample #: E08110333-004

Work Order #: 06X6J1AA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAN #	ESTIMATED RESULT	RETENTION TIME	UNITS
Dis (Chloromethyl) Ether	647-06-1	ND	M	ug/L

NOTE(S):

M. Result was measured against nearest internal standard assuming a response factor of 1

## Southern California Edison Company

Client Sample ID: 142 INTAKE

## GC/MS Volatiles

Int-Sample #: 34H10333-005 Work Order #: 0000000000 Matrix: WATER  
 Date Sampled: 08/09/04 20:50 Date Received: 08/11/04 14:50 MS Run #: 4225302  
 Prep Date: 08/11/04 Analysis Date: 08/12/04  
 Prep Batch #: 4225496 Analysis Time: 00:44  
 Dilution Factor: 1  
 Analyst ID: 015590 Instrument ID: MSQ  
 Method: 8263D

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Chloromethane	ND	2.0	ug/l.	0.30
Chloroethane	ND	2.0	ug/l.	0.30
Bromomethane	ND	2.0	ug/L	1.0
1,1-Dichloroethane	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethane	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/l.	0.20
Chloroform	ND	2.0	ug/l.	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
Carbon tetrachloride	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/l.	0.30
Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
Bromodichloroethane	ND	1.0	ug/l.	0.30
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/l.	0.30
1,2-Dichloroethane	ND	1.0	ug/L	0.40
Tetrachloroethane	ND	1.0	ug/L	0.30
Dibromochloroethane	ND	1.0	ug/l.	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
trans-1,3-Dichloropropene	ND	1.0	ug/l.	0.30
Xylenes (total)	ND	1.0	ug/L	0.30
Vinyl chloride	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Acrylonitrile	ND	20	ug/L	10
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
Trichlorofluoromethane	ND	2.0	ug/l.	0.30

SURROGATE	PERCENT		RECOVERY LIMITS
	RECOVERY		
Bromofluorobenzene	104		975 - 1300
1,2-Dichloroethane-d4	106		104 - 1251
Toluene-d8	104		180 - 1390

Southern California Edison Company

1&2 INTAKE

GC/MS Volatiles

Lab Sample #: F4H113343 DCH

Work Order #: 0MY6K1AA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (XSD5) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAD #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
Bis (Chloromethyl) Ether	513-65-1	ND	N	ug/L

NOTES):

M. Resol was measured against nearest internal standard assuming a response factor of 1.

## Southern California Edison Company

Client Sample ID: 142 OUTFALL

## GC/MS Volatiles

Lot-Sample #: E4H110343 506    Work Order #: 34XG11AA    Matrix: WATER  
 Date Sampled: 08/05/04 21:00    Date Received: 08/11/04 14:50    MS Run #: 4225302  
 Prep Date: 08/11/04    Analysis Date: 08/11/04  
 Prep Batch #: 4225496    Analysis Time: 22:59  
 Dilution Factor: 1  
 Analyst ID: 015590    Instrument ID: MSQ  
 Method: SW846 82602

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
1,1-Dichloroethane	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethane	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
Chloroform	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
Carbon tetrachloride	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	2.0	ug/L	0.30
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	1.0	ug/L	0.30
Tetrachloroethane	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.30
Chlorobenzene	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.30
Vinyl chloride	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.30
Acrolein	ND	20	ug/L	12
Acrylonitrile	ND	20	ug/L	10
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Dichlorodifluoromethane	ND	2.0	ug/L	0.30
Trichlorofluoromethane	ND	2.0	ug/L	0.30

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Bromofluorobenzene	103	(75 - 130)
1,1-Dichloroethane-d4	95	(65 - 135)
Toluene-d8	102	(80 - 120)

Southern California Edison Company

142 OUTFALL

GC/MS Volatiles

Lot-Sample #: B4H110773 J06

Work Order #: 022601A2

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (XSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
nla (Chloromethyl) Ether	542-88-1	ND	M	ug/L

NOTE(S) :

MA Result was measured against nearest internal standard assuming a response factor of 1

## Southern California Edison Company

Client Sample ID: 364 INTAKE

## GC/MS Volatiles

Lot Sample #...: E0HL10213 007    Work Order #...: DMX6M1AA    Matrix.....: WATER  
 Date Sampled...: 06/05/04 20:20    Date Received...: 06/11/04 14:50    MS Run #.....: 4225702  
 Prep Date.....: 06/11/04    Analysis Date...: 06/12/04  
 Prep Batch #...: 4225496    Analysis Time...: 01:05  
 Dilution Factor: 1  
 Analyst ID.....: D15590    Instrument ID...: MS0  
 Method.....: SM846 82509

PARAMETER	RESULT	LIMIT	UNITS	REL.
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
1,1-Dichloromethane	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
Chloroform	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
Carbon tetrachloride	ND	1.0	ug/L	0.10
Benzene	ND	1.0	ug/L	0.20
Trichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.20
cis-1,3-Dichloropropane	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,1,2 Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Dibromochloroethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Xylenes (total)	ND	1.0	ug/L	0.80
Vinyl chloride	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
1,1,2,2 Tetrachloroethane	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	10
Acrylonitrile	ND	20	ug/L	10
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
Trichlorofluoromethane	ND	2.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(75 - 130)
1,2-Dichloroethane-d2	105	(65 - 155)
Toluene d8	103	(80 - 130)

Southern California Edison Company

364 INTAKE

GC/MS Volatiles

Lot-Sample #: E9H110333-007

Work Order #: 00X6X1AA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPONENTS

PARAMETER	MASS #	ESTIMATED REFERENCE	RETENTION TIME	UNITS
Bis (Chloromethyl) Ether	542 88-1	ND	M	ug/l

NOTE(S):

M: Result was evaluated against nearest internal standard calibration; a response factor of 1

## Southern California Edison Company

Client Sample ID: 324 OUTFALL

## GC/MS Volatiles

Lab Sample #.... 24H110333-006    Work Order #.... 0MX6N1AA    Matrix..... WATER  
 Date Sampled.... 08/09/04 20:45    Date Received... 08/11/04 14:50    MS Run #..... 4225102  
 Prep Date..... 08/11/04    Analysis Date... 08/12/04  
 Prep Batch #.... 4225426    Analysis Time... 01:26  
 Dilution Factor: 1  
 Analyst ID..... 015580    Instrument ID... MSQ  
 Method..... SW846 8260F

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MCL
Chloromethane	ND	2.0	ug/L	0.10
Chloroethane	ND	2.0	ug/L	0.10
Bromomethane	ND	2.0	ug/L	1.0
1,1-Dichloroethene	ND	1.0	ug/L	0.10
Methylene chloride	ND	1.0	ug/L	0.10
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethane	ND	1.0	ug/L	0.20
Chloroform	ND	1.0	ug/L	0.10
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
Carbon tetrachloride	ND	1.0	ug/L	0.10
Benzene	ND	1.0	ug/L	0.10
Trichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
Bromodichloromethane	ND	1.0	ug/L	0.10
cis-1,3-Dichloropropane	ND	1.0	ug/L	0.10
Toluene	ND	1.0	ug/L	0.20
1,1,2-Trichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
Tetrachloroethene	ND	1.0	ug/L	0.10
Dibromochloromethane	ND	1.0	ug/L	0.10
Chlorobenzene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.20
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.10
Xylenes (total)	ND	1.0	ug/L	0.50
Vinyl chloride	ND	1.0	ug/L	0.10
Bromoform	ND	1.0	ug/L	0.10
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.10
Acrolein	ND	20	ug/L	12
Acrylonitrile	ND	20	ug/L	10
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Dichlorodifluoromethane	ND	2.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.10

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Bromofluorobenzene	105	175 - 1301
1,2-Dichloroethane d4	106	165 - 1351
Toluene-d8	104	180 - 1401

Southern California Edison Company

754 OUTFALL

GC/MS Volatiles

Loc-Sample #: E4H110333-038

Work Order #: 0606ENLAA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Bis (Chloromethyl) Ether	542-88-1	ND	M	ug/L

NOTE(S):

M: Result was measured against internal standard assuming a response factor of 1.

## Southern California Edison Company

Client Sample ID: 1&amp;2 INTAKE

## GC/MS Volatiles

Int. Sample N.: B4H110433 005 Work Order #: CMX6P1AA Matrix: WATER  
 Date Sampled: 08/10/04 02:55 Date Received: 08/11/04 14:51 MS Run #: 4225332  
 Prep Date: 08/11/04 Analysis Date: 08/12/04  
 Prep Batch #: 4225496 Analysis Time: 01:48  
 Dilution Factor: 1  
 Analyst ID: 015590 Instrument ID: MSQ  
 Method: 5W345 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MUL.
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
Chloroform	ND	1.0	ug/L	0.20
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
Carbon tetrachloride	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.20
Trichloroethene	ND	1.0	ug/L	0.20
1,2-Dichloropropane	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Xylenes (total)	ND	1.0	ug/L	0.60
Vinyl chloride	ND	1.0	ug/L	0.40
Bromoform	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	10
Acrylonitrile	ND	20	ug/L	10
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Trichlorodifluoroethane	ND	2.0	ug/L	0.30
Trichlorofluoromethane	ND	2.0	ug/L	0.30

SURROGATE	RECOVERY	
	PERCENT	LIMITS
Bromofluorobenzene	104	(75 - 130)
1,2-Dichloroethane-d3	105	(65 - 135)
Toluene-d8	102	(80 - 130)

Southern California Edison Company

162 INTAKE

GC/MS Volatiles

Lot Sample #: R4H110333-003

Work Order #: GMX6P1AA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUND

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
B16 (Chloromethyl) Ether	543-96-1	ND	N	ug/L

NOTE(S):

M. Result was measured against nearest Internal Standard assuming a response factor of 1.

## Southern California Edison Company

Client Sample ID: L&amp;2 DUFFALL

## GC/MS Volatiles

Lot-Sample #....: E4H110334 01G Work Order #....: GMS621AA Matrix.....: WATER  
 Date Sampled....: 08/10/04 03:15 Date Received...: 08/11/04 14:50 MS Run #.....: 4225302  
 Prep Date.....: 08/11/04 Analysis Date...: 08/12/04  
 Prep Batch #....: 4225490 Analysis Time...: 02:00  
 Dilution Factor: 1  
 Analyst ID.....: 011690 Instrument ID...: MS0  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNIT	MDL
Chloroethane	ND	1.0	ug/L	0.10
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
1,1-Dichloroethane	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethane	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
Chloroform	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
Carbon tetrachloride	ND	1.0	ug/L	0.10
Benzene	ND	1.0	ug/L	0.10
Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
cis-1,4-Dichloropropene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	1.0	ug/L	0.40
Tetrachloroethylene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.40
Xylenes (total)	ND	1.0	ug/L	0.50
Vinyl chloride	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Aroclor	ND	20	ug/L	12
Acrylonitrile	ND	20	ug/L	12
3-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Dichlorodifluoromethane	ND	2.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.10

SUBSTRATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromochlorobenzene	104	175 - 1400
1,2-Dichloroethane-G4	103	165 - 1350
Toluene-d8	103	130 - 1300

Southern California Edison Company

1&2 OUTFALL

GC/MS Volatiles

Lot Sample #: E4H10333 C10

Work Order #: 0M36Q1AA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS): TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Bis (Chloroethyl) Ether	542-88-1	ND	N	ug/L

NOTE(S):

17. Result was measured against nearest internal standard assuming a response factor of 1



Southern California Edison Company

164 INTAKE

GC/MS Volatiles

Lot Sample #: 24H113343-011      Work Order #: 0MX6210A      Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
B18 (Chloromethyl) Ether	542-88-1	ND	M	ug/l.

NOTE(S):

M Result was measured against revised Internal Standard assuming a response factor of 1.

## Southern California Edison Company

Client Sample ID: 324 OUTFALL

## GC/MS Volatiles

Loc Sample #....: E48110333 013    Work Order #....: CMX671AA    Matrix.....: WATER  
 Date Sampled....: 06/10/04 02:35    Date Received...: 06/11/04 14:50    MS Run #.....: 4225AD2  
 Prep Date.....: 06/11/04    Analysis Date...: 06/12/04  
 Prep Batch #....: 4225496    Analysis Time...: 02:51  
 Dilution Factor: 1  
 Analyst ID.....: 015530    Instrument ID...: MSQ  
 Method.....: RMW46 326CB

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Chloromethane	ND	2.0	ug/L	0.10
Chloroethane	ND	2.0	ug/L	0.10
Bromomethane	ND	2.0	ug/L	1.0
1,1-Dichloroethane	ND	1.0	ug/L	0.10
Methylene chloride	ND	1.0	ug/L	0.10
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethane	ND	1.0	ug/L	0.10
Chloroform	ND	1.0	ug/L	0.10
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.10
Benzene	ND	1.0	ug/L	0.10
Trichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
Bromodichloromethane	ND	1.0	ug/L	0.10
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
Toluene	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
Tetrachloroethane	ND	1.0	ug/L	0.10
Vibromochloromethane	ND	1.0	ug/L	0.10
Chlorobenzene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.10
Xylenes (total)	ND	1.0	ug/L	0.10
Vinyl chloride	ND	1.0	ug/L	0.10
Bromoform	ND	1.0	ug/L	0.10
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.10
Axiphen	ND	20	ug/L	10
Acrylonitrile	ND	20	ug/L	10
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Dichlorodifluoromethane	ND	2.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.10

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Bromofluorobenzene	102	(75 - 130)
1,2-Dichloroethane-d4	105	(65 - 135)
Toluene-d8	102	(80 - 135)

Southern California Edison Company

344 OUTFALL

GC/MS Volatiles

Lot Sample #: E41110731-012

Work Order #: 04X671A3

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Bis (Chloromethyl) Ether	542-88-1	ND	2	ug/L

NOTE(S):

ND: Result was measured against nearest internal standard showing a response factor of 1

Client Sample ID: L&Z INTAKE

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Lot-Sample #...: E4H110338 013 Work Order #...: GMXEV1AA Matrix.....: WATER
Data Sampled...: 08/10/04 09:15 Date Received...: 08/11/04 14:50 MS Run #.....: 4225402
Prep Data.....: 08/13/04 Analysis Date...: 08/12/04
Prep Batch #...: 4225496 Analysis Time...: 03:12
Dilution Factor: 1
Analyst ID.....: C15590 Instrument ID...: MSC
Method.....: SW846 8260S

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<u>PARAMETER</u>	<u>RESULT</u>	<u>LIMIT</u>	<u>UNITS</u>	<u>MCL</u>
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.30
Carbon tetrachloride	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.40
Trichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.30
Xylenes (Total)	ND	1.0	ug/L	0.80
Vinyl chloride	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Acetone	ND	20	ug/L	10
Acrylonitrile	ND	20	ug/L	10
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
Trichlorofluoromethane	ND	2.0	ug/L	0.30

<u>SUBSTRATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromodichlorobenzene	104	(75 - 130)
1,2-Dichloroethane-d2	106	(65 - 135)
Toluene d9	103	(80 - 130)

Southern California Edison Company

162 INTAKE

GC/MS Volatiles

Lot-Sample #: K4H110331-013

Work Order #: 70X6V1AA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Alk (Chloromethyl) Ether	542-86-1	ND	N	ug/L

NOTE(S):

N: Result was measured against nearest internal standard assuming a response factor of 1.

## Southern California Edison Company

Client Sample ID: 162 OUTFALL

## GC/MS Volatiles

Lot-Sample #.... R4H110332-G14    Work Order #.... 00X5W1PA    Matrix..... WATER  
 Date Sampled.... 08/10/04 08:55    Date Received... 08/11/04 14:50    MS Run #..... 4225332  
 Prep Date..... 08/11/04    Analysis Date... 08/12/04  
 Prep Batch #.... 4225496    Analysis Time... 03:14  
 Dilution Factor: 1  
 Analyst ID..... 015595    Instrument ID... MS0  
 Method..... 57846 8200s

PARAMETER	RESULT	REPORTING LIMIT	UNITS	YDL
Chloromethane	ND	3.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
1,1-Dichloroethene	ND	1.0	ug/L	0.10
Methylene chloride	ND	1.0	ug/L	0.10
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.10
Chloroform	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
Carbon tetrachloride	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.40
Tetrachloroethane	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
trans-1,4-Dichloropropene	ND	1.0	ug/L	0.50
Xylenes (total)	ND	1.0	ug/L	0.80
Vinyl chloride	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Acrylonitrile	ND	20	ug/L	10
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
Trichlorofluoromethane	ND	2.0	ug/L	0.30

SUBSTITUTE	PERCENT RECOVERY	RECOVERY LIMITS
Bromochlorobenzene	104	(75 - 130)
1,2-Dichloroethane-d1	100	(55 - 135)
Toluene d8	104	(80 - 130)

Southern California Edison Company

162 OUTFALL

GC/MS Volatiles

Lab-Sample #: S4E110333-014

Work Order #: 0MX6W1AA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MS/MS): TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Dia (Chloromethyl) Ether	542-88-1	ND	M	ug/L

NOTE(S):

ND: Result was measured against nearest internal standard assuming a response factor of 1.

## Southern California Edison Company

Client Sample ID: 364 INTAKE

## GC/MS Volatiles

Lot-Sample #: H4H110333-015 Work Order #: 00X6X1AA Matrix: WATER  
 Date Sampled: 08/10/04 16:15 Date Received: 08/11/04 14:53 MS Run #: 4725302  
 Prep Date: 08/12/04 Analysis Date: 08/12/04  
 Prep Batch #: 4225496 Analysis Time: 03:55  
 Dilution Factor: 1  
 Analyst ID: 015530 Instrument ID: 850  
 Method: 82546 82602

PARAMETER	RESULT	REPORTING LIMIT	UNITS	YOL
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
1,1-Dichloroethane	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
Chloroform	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
Carbon tetrachloride	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	1.0	ug/L	0.40
Tetrachloroethane	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Xylenes (total)	ND	1.0	ug/L	0.50
Vinyl chloride	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Aroclor	ND	20	ug/L	12
Acrylonitrile	ND	20	ug/L	10
2-Chloroethyl vinyl ether	ND	5.0	ug/L	0.0
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
Trichlorofluoromethane	ND	2.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(75 - 130)
1,2-Dichloroethane-d4	99	(65 - 135)
Toluene-d8	102	(60 - 135)

Southern California Edison Company

344 INTAKE

GC/MS Volatiles

Lot-Sample #: B4H110333-015

Work Order #: 00XGK1AA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Bis (Chloroethyl) Ether	643-98-1	ND	M	ug/L

NOTE(S):

M. Result was measured against nearest internal standard assuming a response factor of 1

## Southern California Edison Company

Client Sample ID: 344 OUTPAUL

## GC/MS Volatiles

Lot-Sample #....: F4X110323-016 Work Order #....: SMX601A2 Matrix.....: WATER  
 Date Sampled....: 08/10/04 08:15 Date Received...: 08/11/04 14:50 MS Run #.....: 422502  
 Prep Date.....: 08/11/04 Analysis Date...: 08/12/04  
 Prep Batch #....: 4225496 Analysis Time...: 09:16  
 Dilution Factor: 1  
 Analyst ID.....: 016890 Instrument ID...: MSQ  
 Method.....: SM846 6260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	2.3	ug/L	0.30
Chloroethane	ND	2.3	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
1,1-Dichloroethane	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
Trans-1,2 Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
Carbon tetrachloride	ND	1.0	ug/L	0.20
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,1,2 Trichloroethane	ND	1.0	ug/L	0.30
1,2 Dichloroethane	ND	1.0	ug/L	0.40
Tetrachloroethane	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Xylenes (Total)	ND	1.0	ug/L	0.60
Vinyl chloride	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.40
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Acrylonitrile	ND	20	ug/L	10
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
Trichlorofluoromethane	ND	2.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(75 - 130)
1,2-Dichloroethane d4	106	(65 - 135)
Toluene d6	104	(30 - 130)

Southern California Edison Company

144 OUTFALL

GC/MS Volatiles

101-Sample #: R4H110753-015

Work Order #: 000601AA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Bis (Chloromethyl) Ether	542-88-1	MC	M	UG/L

NOTE(S):

M Result was measured against nearest internal standard assuming a response factor of 1

## Southern California Edison Company

Client Sample ID: 142 INTAKE

## GC/MS Volatiles

Lot-Sample #....: 54H110310-017    Work Order #....: GNX611AA    Matrix.....: WATER  
 Date Sampled....: 06/10/04 14:55    Date Received...: 06/11/04 14:50    MS Run #.....: 4226161  
 Prep Date.....: 06/12/04    Analysis Date...: 06/12/04  
 Prep Batch #....: 4226239    Analysis Time...: 20:25  
 Dilution Factor: 1  
 Analyst ID.....: 015595    Instrument ID...: MSR  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	%OL
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
1,1-Dichloroethane	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
Carbon tetrachloride	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
cis-1,4-Dichloropropene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.50
Xylenes (total)	ND	1.0	ug/L	0.80
Vinyl chloride	ND	1.0	ug/L	0.30
Bromotoluene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Acrylonitrile	ND	20	ug/L	12
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
Trichlorofluoromethane	ND	2.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(75 - 120)
1,2-Dichloroethane-d4	105	(65 - 135)
Toluene-d8	94	(60 - 130)

Southern California Edison Company

152 INTAKE

GC/MS Volatiles

Lot Sample #: B4H110333 017

Work Order #: 00X611AA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
215 (Chloromethyl) Ether	542-88-1	ND	N	ug/L

NOTE(S) :

M. Result was tabulated against nearest Internal standard assuming a response factor of 1

## Southern California Edison Company

Client Sample ID: 142 OUTFALL

## GC/MS Volatiles

Lot-Sample #....: R4H110333-018    Work Order #....: GMX621AA    Matrix.....: WATER  
 Date Sampled....: 08/10/04 15:15    Date Received...: 08/11/04 14:50    MS Run #.....: 4235213  
 Prep Date.....: 08/11/04    Analysis Date...: 08/12/04  
 Prep Batch #....: 4235515    Analysis Time...: 01:05  
 Dilution Factor: 1  
 Analyst ID.....: 016590    Instrument ID...: MSK  
 Method.....: SW046 62608

PARAMETER	RESULT	REPORTING	UNITS	MDL
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
1,1-Dichloroethane	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethane	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
Carbon tetrachloride	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
cis-1,3-Dichloropropane	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	1.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.30
trans-1,3-Dichloropropane	ND	1.0	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.30
Vinyl chloride	ND	1.0	ug/L	0.30
Bromotoluene	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	10
Acrylonitrile	ND	20	ug/L	10
2-Chloroethyl vinyl ether	ND	0.0	ug/L	2.0
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
Trichlorofluoromethane	ND	2.0	ug/L	0.30

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	90	170 - 130
1,2-Dichloroethane G4	104	150 - 135
Toluene-d8	98	150 - 130

Southern California Edison Company

1&2 OUTFALL

GC/MS volatiles

Lot Sample #: 04H110343-019

Work Order #: 0000000000

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPONENTS

PARAMETER	CAN #	ESTIMATED RESULT	RETENTION TIME	UNITS
His (Chloromethyl) Ether	942-88-1	ND	M	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1

## Southern California Edison Company

Client Sample ID: 354 INTAKK

## GC/MS Volatiles

Lot-Sample #....: E4H-10333-019    Work Order #....: GMX631AA    Matrix.....: WATER  
 Date Sampled....: 08/10/04 14:18    Date Received...: 08/11/04 14:50    MS Run #.....: 4225313  
 Prep Date.....: 08/11/04    Analysis Date...: 08/12/04  
 Prep Batch #....: 4325515    Analysis Time...: 01:27  
 Dilution Factor: 1  
 Analyst ID.....: 015590    Instrument ID...: KSA  
 Method.....: SW846 8260B

PARAMETER	RESULT	CONC'T	UNITS	MCL
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
1,1-Dichloroethene	ND	1.0	ug/L	0.30
Methylene chloride	ND	1.0	ug/L	0.30
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.20
Chloroform	ND	1.0	ug/L	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
Carbon tetrachloride	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.30
Trichloroethene	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.10
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	1.0	ug/L	0.40
Tetrachloroethane	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.30
Ethylbenzene	ND	1.0	ug/L	0.20
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.50
Vinyl chloride	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Acetoin	ND	20	ug/L	12
Acrylonitrile	ND	20	ug/L	10
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Dichlorodifluoromethane	ND	2.0	ug/L	0.40
Trichlorofluoromethane	ND	2.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	175 - 1300
1,2-Dichloroethane-d4	105	155 - 1400
Toluene-d8	98	180 - 1300

Southern California Edison Company

354 INTAKE

GC/MS Volatiles

Lot-Sample #: R4H10233-019      Work Order #: 000631AA      Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Dib (Chloromethyl) Ether	542-86-1	ND	M	ug/L

NOTE(S):

NT: Result was measured against nearest internal standard assuming a response factor of 1

## Southern California Edison Company

Client Sample ID: 3&amp;4 DFTMALL

## GC/MS Volatiles

Lab Sample #: KAH100333-020 Work Order #: GCM641AA Matrix: WATER  
 Date Sampled: 08/10/04 14:35 Date Received: 08/11/04 14:53 MS Run #: 422513  
 Prep Date: 08/12/04 Analysis Date: 08/12/04  
 Prep Batch #: 4225515 Analysis Time: 01:48  
 Dilution Factor: 1  
 Analyst ID: 015500 Instrument ID: MSR  
 Method: SW846 82005

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MCL
Chloromethane	ND	2.0	ug/L	0.30
Chloroethane	ND	2.0	ug/L	0.30
Bromomethane	ND	2.0	ug/L	1.0
1,1-Dichloroethane	ND	1.0	ug/L	0.10
Ethylene chloride	ND	1.0	ug/L	0.10
trans-1,2-Dichloroethane	ND	1.0	ug/L	0.30
1,1-Dichloroethane	ND	1.0	ug/L	0.30
Chloroform	ND	1.0	ug/L	0.10
1,1,1-Trichloroethane	ND	1.0	ug/L	0.20
Carbon tetrachloride	ND	1.0	ug/L	0.30
Benzene	ND	1.0	ug/L	0.10
Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloropropane	ND	1.0	ug/L	0.30
Bromodichloromethane	ND	1.0	ug/L	0.30
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.30
Toluene	ND	1.0	ug/L	0.30
1,1,2-Trichloroethane	ND	1.0	ug/L	0.30
1,2-Dichloroethane	ND	1.0	ug/L	0.40
Tetrachloroethane	ND	1.0	ug/L	0.30
Dibromochloromethane	ND	1.0	ug/L	0.40
Chlorobenzene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.20
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.30
Xylenes (total)	ND	1.0	ug/L	0.50
Vinyl chloride	ND	1.0	ug/L	0.30
Bromoform	ND	1.0	ug/L	0.30
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.40
Acrolein	ND	20	ug/L	12
Acrylonitrile	ND	20	ug/L	12
2-Chloroethyl vinyl ether	ND	5.0	ug/L	2.0
Dichlorodifluoromethane	ND	2.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.10

SURROGATE	PERCENT	
	RECOVERY	RECOVERY
Bromofluorobenzene	99	(75 - 130)
1,2-Dichloroethane-d4	105	(65 - 135)
Toluene d8	96	(80 - 130)

Southern California Edison Company

144 OUTFALL

GC/MS Volatiles

Lab-Sample #: R4H110333-020

Work Order #: 0MXS41AA

Matrix: WATER

MAHON SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Hex (Chloromethyl) Ether	542-68-1	ND	M	ug/L

NOTE(S):

M: Result was measured against nearest internal standard obtaining a response factor of 1.

# QC DATA ASSOCIATION SUMMARY

B4H110333

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	SW846 8260B		4225496	4225302
002	WATER	SW846 8260B		4225496	4225302
003	WATER	SW846 8260B		4225496	4225302
004	WATER	SW846 8260B		4225496	4225302
005	WATER	SW846 8260B		4225496	4225302
006	WATER	SW846 8260B		4225496	4225302
007	WATER	SW846 8260B		4225496	4225302
008	WATER	SW846 8260B		4225496	4225302
009	WATER	SW846 8260B		4225496	4225302
010	WATER	SW846 8260B		4225496	4225302
011	WATER	SW846 8260B		4225496	4225302
012	WATER	SW846 8260B		4225496	4225302
013	WATER	SW846 8260B		4225496	4225302
014	WATER	SW846 8260B		4225496	4225302
015	WATER	SW846 8260B		4225496	4225302
016	WATER	SW846 8260B		4225496	4225302
017	WATER	SW846 8260B		4225496	4225302
018	WATER	SW846 8260B		4225496	4225302
019	WATER	SW846 8260B		4225496	4225302
020	WATER	SW846 8260B		4225496	4225302

# METHOD BLANK REPORT

## GC/MS Volatiles

Client Lot #...: E4H120333  
 MB Lot-Sample #: E4H120000-496

Work Order #...: 0M20H1AA

Matrix.....: WATER

Analysis Date...: 08/11/04  
 Dilution Factor: 1

Prep Date.....: 08/11/04

Analysis Time...: 22:27

Prep Batch #...: 0225496

Instrument ID...: K90

Analyst ID.....: 015090

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SKB40 8250B
Chloroethane	ND	2.0	ug/L	SKB46 8250B
Bromomethane	ND	2.0	ug/L	SKB46 8250B
1,1-Dichloroethane	ND	1.0	ug/L	SKB46 8250B
Methylene chloride	ND	1.0	ug/L	SKB40 8250B
trans-1,2-Dichloroethane	ND	1.0	ug/L	SKB46 8250B
1,1-Dichloroethane	ND	1.0	ug/L	SKB46 8250B
Chloroform	ND	1.0	ug/L	SKB40 8250B
1,1,1-Trichloroethane	ND	1.0	ug/L	SKB46 8250B
Carbon tetrachloride	ND	1.0	ug/L	SKB46 8250B
Benzene	ND	1.0	ug/L	SKB40 8250B
Trichloroethene	ND	1.0	ug/L	SKB46 8250B
1,2-Dichloropropane	ND	1.0	ug/L	SKB46 8250B
Bromodichloromethane	ND	1.0	ug/L	SKB46 8250B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SKB46 8250B
Toluene	ND	1.0	ug/L	SKB46 8250B
1,1,2 Trichloroethane	ND	1.0	ug/L	SKB46 8250B
1,2 Dichloroethane	ND	1.0	ug/L	SKB46 8250B
Tetrachloroethane	ND	1.0	ug/L	SKB46 8250B
Nitromethylchloromethane	ND	1.0	ug/L	SKB40 8250B
Chlorobenzene	ND	1.0	ug/L	SKB46 8250B
Ethylbenzene	ND	1.0	ug/L	SKB46 8250B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SKB40 8250B
Vinyl chloride	ND	1.0	ug/L	SKB46 8250B
Xylenes (total)	ND	1.0	ug/L	SKB46 8250B
Bromoform	ND	1.0	ug/L	SKB46 8250B
1,1,2,2 Tetrachloroethane	ND	1.0	ug/L	SKB46 8250B
Acrolein	ND	20	ug/L	SKB46 8250B
Acrylonitrile	ND	20	ug/L	SKB46 8250B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SKB40 8250B
Dichlorodifluoromethane	ND	2.0	ug/L	SKB46 8250B
Trichlorofluoromethane	ND	2.0	ug/L	SKB46 8250B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 130)
1,2-Dichloroethane d4	100	(65 - 135)
Toluene d8	102	(80 - 130)

### NOTES(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Southern California Edison Company

Method Blank Report

. GC/MS Volatiles

Lot-Sample #: B4E12E005-490 B Work Order #: 002QRIAA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS): TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Bis (Chloromethyl) Ether	542 69 1	ND	M	ug/L

NOTE (S):

M: Result not measured against internal standard assuming a response factor of 1

# METHOD BLANK REPORT

## GC/MS Volatiles

Client Lot #...: B4H110333  
MR Lot-Sample #: B4H130500-515

Work Order #...: GM2TQ1AA

Matrix.....: WATER

Analysis Date...: 10/11/04  
Dilution Factor: 1

Prep Date.....: 08/17/04  
Prep Batch #...: 6225515

Analysis Time...: 18:04  
Instrument ID...: MSR

Analyst ID.....: 015590

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
cis-1,4-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Bromofluorobenzene	97	(75 - 130)
1,2-Dichloroethane-d4	97	(65 - 135)
Toluene-d8	100	(80 - 130)

### NOTE (5):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Southern California Edison Company

Method Blank Report

GC/MS Volatiles

Lot-Sample #: E4H120000-015 B Work Order #: 0627K10A Matrix: WATER

GC/MS DETECTOR/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RETENTION TIME	RETENTION TIME	UNITS
Bis (Chloromethyl) ether	542 68 1	ND	M	ug/L

NOTE(S):

nk: Result was measured against nearest internal standard assuming a response factor of 1

# METHOD BLANK REPORT

## GC/MS Volatiles

Client Lot #...: F4H113000  
 KCR Lot-Sample #: E4H113000-239

Work Order #...: GM3CR12A

Matrix.....: WATER

Analysis Date...: 08/12/04  
 Dilution Factor: 1

Prep Date.....: 08/12/04

Analysis Time...: 19:31

Prep Batch #...: 4326233

Instrument ID...: KCR

Analyst ID.....: 316590

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
Chloromethane	ND	3.7	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
1,2 Dichloropropane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
3-Chloropropyl vinyl ether	ND	5.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B

SURROGATE	PRESENT	RECOVERY
	RECOVERY	LIMITS
Bromofluorobenzene	37	(75 - 130)
1,2-Dichloroethane d4	36	(65 - 135)
Toluene-d8	38	(80 - 130)

NOTES (N):

Calculations are performed based on using the standard deviation in the calculated results.

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Lot #...: E4H110332      Work Order #...: GMRQW1AC      Matrix.....: WATER  
 LCS Lot-Sample#: E4H12019D-496  
 Prep Date.....: 08/11/04      Analysis Date...: 08/11/04  
 Prep Batch #...: 4225496      Analysis Time...: 21:05  
 Dilution Factor: 1      Instrument ID...: MSQ  
 Analyst ID.....: 015589

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	112	(65 - 135)	SW846 8260B
Benzene	100	(75 - 125)	SW846 8260B
Trichloroethene	95	(75 - 135)	SW846 8260B
Toluene	105	(75 - 125)	SW846 8260B
Chlorobenzene	105	(75 - 125)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	107	(75 - 130)
1,2-Dichloroethane-d4	93	(65 - 135)
Toluene-d8	107	(65 - 130)

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Blank print denotes control parameters.

# LABORATORY CONTROL SAMPLE DATA REPORT

## GC/MS Volatiles

Client Lot #...: E4H110133      Work Order #...: GMSQR1AC      Matrix.....: WATER  
 LCS Lot-Sample#: E4H120000-406  
 Prep Date.....: 08/11/04      Analysis Date...: 08/11/04  
 Prep Batch #...: 4225456      Analysis Time...: 21:05  
 Dilution Factor: 1      Instrument ID...: MSQ  
 Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	10.0	11.2	ug/L	112	SM846 8260B
Benzene	10.0	10.0	ug/L	100	SM846 8260B
Trichloroethene	10.0	9.54	ug/L	95	SM846 8260B
Toluene	10.0	10.5	ug/L	105	SM846 8260B
Chlorobenzene	10.0	10.5	ug/L	105	SM846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromochlorobenzene	107	(74 - 130)
1,2-Dichloroethane d4	91	(64 - 135)
Toluene-d8	107	(80 - 130)

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

Field print shows control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E4H110334      Work Order #...: SM2TN1AC      Matrix.....: W1B2  
 LCS Lot Sample#: E4H130560 515  
 Prep Date.....: 08/11/04      Analysis Date...: 08/11/04  
 Prep Batch #...: 422501:      Analysis Time...: 17:20  
 Dilution Factor: 1      Instrument ID...: MSR  
 Analyst ID.....: 015500

<u>PARAMETER</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	<u>METHOD</u>
1,1-Dichloroethene	90	(65 - 135)	SW846 8260B
Benzene	88	(75 - 125)	SW846 8260B
Trichloroethene	87	(75 - 135)	SW846 8260B
Toluene	86	(75 - 125)	SW846 8260B
Chlorobenzene	87	(75 - 125)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	100	(75 - 150)
1,2-Dichloroethane-d4	92	(65 - 135)
Toluene-d8	107	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# LABORATORY CONTROL SAMPLE DATA REPORT

## GC/MS Volatiles

Client Lot #...: E0HJ10333      Work Order #...: GK21K1AD      Matrix.....: WATER  
 LCR Lot-Sample#: 56H120000-515  
 Prep Date.....: 05/11/04      Analysis Date...: 08/12/04  
 Prep Batch #...: 4225515      Analysis Time...: 17:20  
 Dilution Factor: 1      Instrument ID...: MSK  
 Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethane	10.0	9.05	ug/L	90	SW846 8260B
Benzene	10.0	8.76	ug/L	88	SW846 8260B
Trichloroethane	10.0	8.70	ug/L	87	SW846 8260B
Toluene	10.0	8.65	ug/L	86	SW846 8260B
Chlorobenzene	10.0	8.69	ug/L	87	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	100	(75 - 120)
1,2-Dichloroethane-d4	92	(60 - 135)
Toluene-d8	102	(80 - 130)

### NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Lot #....: E0H10313      Work Order #....: GM10E1AC      Matrix.....: WATER  
 LCS Lot-Sample#: E0H10000-239  
 Prep Date.....: 08/12/04      Analysis Date...: 08/12/04  
 Prep Batch #....: 4226235      Analysis Time...: 15:51  
 Dilution Factor: 1      Instrument ID...: MSR  
 Analyst ID.....: 015550

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1 Dichloroethene	104	(65 - 135)	SW846 8260B
Benzene	96	(75 - 125)	SW846 8260B
Trichloroethene	95	(75 - 135)	SW846 8260B
Toluene	95	(75 - 125)	SW846 8260B
Chlorobenzene	94	(75 - 125)	SW846 8260B

SUBROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(75 - 130)
1,2-Dichloroethane d4	98	(65 - 135)
Toluene-d8	102	(80 - 130)

### NOTE(s):

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters.

# LABORATORY CONTROL SAMPLE DATA REPORT

## GC/MS Volatiles

Client Lot #....: E41110334      Work Order #....: 0M3031AC      Matrix.....: WATER  
 LCS Lot-Sample#: E41120005-209  
 Prep Date.....: 08/17/04      Analysis Date...: 08/12/04  
 Prep Batch #....: 4726239      Analysis Time...: 18:51  
 Dilution Factor: 1      Instrument ID...: MSR  
 Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	10.0	10.4	ug/L	104	SM846 8260B
Benzene	10.0	9.59	ug/L	96	SM846 8260B
Trichloroethene	10.0	9.54	ug/L	95	SM846 8260B
Toluene	10.0	9.50	ug/L	95	SM846 8260B
Chlorobenzene	10.0	9.42	ug/L	94	SM846 8260B

SURrogate	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(75 - 130)
1,2-Dichloroethene d4	95	(64 - 135)
Toluene-d8	103	(60 - 130)

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

Bold print denotes control parameters

# MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Lot #....: 242110334      Work Order #....: GNY662AC-M8      Matrix.....: WATER  
 MS Lot-Sample #: 242110334-006      CHX601AC MSD  
 Date Sampled...: 08/09/04 21:00      Date Received...: 08/11/04 14:50      MS Run #.....: 4275102  
 Prep Date.....: 08/11/04      Analysis Date...: 08/12/04  
 Prep Batch #....: 4225496      Analysis Time...: 04:37  
 Dilution Factor: 1      Analyst ID.....: 015590      Instrument ID...: MSQ

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1 Dichloroethene	149 a	(65 - 135)			SW846 8260B
	150 a	(65 - 135)	0.66	(0-25)	SW846 8260B
Benzene	126 a	(75 - 125)			SW846 8260D
	126 a	(75 - 125)	0.23	(0-25)	SW846 8260B
Trichloroethene	118	(75 - 135)			SW846 8260B
	118	(75 - 135)	0.59	(0-25)	SW846 8260B
Toluene	128 a	(75 - 125)			SW846 8260B
	128 a	(75 - 125)	0.46	(0-25)	SW846 8260B
Chlorobenzene	126 a	(75 - 125)			SW846 8260B
	126 a	(75 - 125)	0.07	(0-25)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Prototoluene	111	(75 - 135)
	109	(75 - 135)
1,2-Dichloroethane-d4	104	(65 - 135)
	99	(65 - 135)
Toluene-d8	104	(80 - 130)
	104	(80 - 130)

### NOTES(S):

Calculations are performed before rounding to avoid round off errors in calculated results.

Bold print denotes control parameters

a = Spiked analyte recovery is outside stated control limits.

# MATRIX SPIKE SAMPLER DATA REPORT

## GC/MS Volatiles

Client Lot #...: E4H110233      Work Order #...: 24X6L1AC-MS      Matrix.....: NACR9  
 MS Lot-Sample #: E4H110233-006      GMX6L1AC-MSD  
 Date Sampled...: 08/09/04 21:00      Date Received...: 08/11/04 18:50      MS Run #.....: 4225003  
 Prep Date.....: 08/11/04      Analysis Date...: 08/12/04  
 Prep Batch #...: 4225496      Analysis Time...: 04.37  
 Dilution Factor: 1      Analyst ID.....: D15890      Instrument ID...: MSQ

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	ND	10.0	14.9	ug/L	149 a		SW846 8260B
	ND	10.0	15.0	ug/L	150 a	0.66	SW846 8260B
Benzene	ND	10.0	12.6	ug/L	126 a		SW846 8260B
	ND	10.0	12.6	ug/L	126 a	0.23	SW846 8260B
Trichloroethene	ND	10.0	11.8	ug/L	118		SW846 8260B
	ND	10.0	11.8	ug/L	118	0.59	SW846 8260B
Toluene	ND	10.0	12.8	ug/L	128 a		SW846 8260B
	ND	10.0	12.8	ug/L	128 a	0.46	SW846 8260B
Chlorobenzene	ND	10.0	12.6	ug/L	126 a		SW846 8260B
	ND	10.0	12.6	ug/L	126 a	0.07	SW846 8260B

SUBSTANCE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	111	(75 - 130)
	100	(75 - 130)
1,2-Dichloroethane-d4	104	(65 - 135)
	99	(65 - 135)
Toluene-d8	104	(90 - 120)
	104	(90 - 120)

### NOTES:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Field print denotes critical parameters

a. Spiked analyte recovery is outside stated range of limits.

# MATRIX SPINK SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Job #...: 54H110333 Work Order #...: GXXR31AX MS Matrix.....: WATER  
 MS Job-Sample #: 54H110290-000 CMXR011A0-MSD  
 Date Sampled...: 08/10/04 12:00 Date Received...: 08/11/04 11:49 MS Run #.....: 4225313  
 Prep Date.....: 08/11/04 Analysis Date...: 08/12/04  
 Prep Batch #...: 4225515 Analysis Time...: 02.69  
 Dilution Factor: 50 Analyst ID.....: 015990 Instrument ID...: MSR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	REFERENCE
1,1 Dichloroethene	92	(65 - 135)			SM846 8260B
	85	(65 - 135)	8.0	(0-25)	SM846 8260B
Benzene	0.0 MSB	(75 - 125)			SM846 8260B
	0.0 MSR	(75 - 125)	0.0	(0-25)	SM846 8260B
Trichloroethene	87	(75 - 135)			SM846 8260B
	79	(75 - 135)	9.7	(0-25)	SM846 8260B
Toluene	87	(75 - 125)			SM846 8260B
	81	(75 - 125)	6.3	(0-25)	SM846 8260B
Chlorobenzene	86	(75 - 125)			SM846 8260B
	80	(75 - 125)	7.0	(0-25)	SM846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	95	(75 - 130)
	100	(75 - 130)
1,2-Dichloroethane d4	94	(65 - 135)
	93	(65 - 135)
Toluene-d8	107	(80 - 130)
	101	(80 - 130)

### NOTE (S):

Calculations are performed online ensuring to avoid round-off errors in calculated results

Bold print denotes control parameters

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount

# MATRIX SPIKE SAMPLE DATA REPORT

## GC/MS Volatiles

Client Lot #...: E4H110333      Work Order #...: GMR31AX MS      Matrix.....: WATER  
 MS Lot-Sample #: E4H110250-304      GMR31AG-MSE  
 Date Sampled...: 08/10/04 12:00      Date Received...: 08/11/04 11:45      MS Run #.....: 4225412  
 Prep Date.....: 08/11/04      Analysis Date...: 08/12/04  
 Prep Batch #...: 4225515      Analysis Time...: 12:03  
 Dilution Factor: 50      Analyst ID.....: 014450      Instrument ID...: MSR

PARAMETER	SAMPLE		SPIKE		MEASRD	PERCENT		METHOD
	AMOUNT	AMT	AMOUNT	AMT		RECOVERY	RPD	
1,1 Dichloroethene	ND	500	461	ug/L	92			SW846 8260B
	ND	500	426	ug/L	85	8.0		SW846 8260B
Benzene	3700	500		ug/L	0.0			SW846 8260B
	Qualifiers: NS6							
	3700	500		ug/L	0.0	0.0		SW846 8260B
	Qualifiers: MSD							
Trichloroethene	ND	500	434	ug/L	87			SW846 8260B
	ND	500	394	ug/L	79	9.7		SW846 8260B
Toluene	38	500	472	ug/L	87			SW846 8260B
	38	500	443	ug/L	81	6.3		SW846 8260B
Chlorobenzene	ND	500	430	ug/L	86			SW846 8260B
	ND	500	401	ug/L	80	7.0		SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Bromofluorobenzene	99	(75 - 130)
	100	(75 - 130)
1,2-Dichloroethane-d4	94	(65 - 135)
	93	(65 - 125)
Toluene-d8	101	(80 - 130)
	101	(80 - 130)

### NOTES:

Calculations are performed before rounding to avoid round-off errors in calculated results

ND: not detected

MSR: the recovery and RPD were not calculated because the sample amount was greater than four times the spike amount

# MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Lot #....: E4H120333      Work Order #....: GM2VDCIAC-MS      Matrix.....: WATER  
 MS Lot Sample #: E4H120306 002      GM2VDCIAC-MSD  
 Date Sampled....: 08/10/04 10:40      Data Received...: 08/12/04 14:30      MS Run #.....: 0226141  
 Prep Date.....: 08/13/04      Analysis Date...: 06/13/04  
 Prep Batch #....: 4226130      Analysis Time...: 03:57  
 Dilution Factor: 1      Analyst ID.....: 016690      Instrument ID...: MSR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	LIMITS	METHOD
1,1-Dichloroethene	100	(65 - 135)			SW846 8260B
	96	(65 - 135)	4.3	(0-25)	SW846 8260B
Benzene	95	(75 - 125)			SW846 8260B
	92	(75 - 125)	3.8	(0-25)	SW846 8260B
Trichloroethene	93	(75 - 135)			SW846 8260B
	89	(75 - 135)	4.1	(0-25)	SW846 8260B
Toluene	97	(75 - 125)			SW846 8260B
	94	(75 - 125)	3.2	(0-25)	SW846 8260B
Chlorobenzene	95	(75 - 125)			SW846 8260B
	91	(75 - 125)	4.7	(0-25)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(75 - 130)
	89	(75 - 130)
1,2-Dichloroethane-d4	87	(65 - 125)
	87	(65 - 135)
Toluene-d8	103	(80 - 130)
	103	(80 - 130)

### NOTES:

Calculations are performed before rounding to avoid round off errors in calculated results

Bold print denotes control parameters

# MATRIX SPIKE SAMPLE DATA REPORT

## GC/MS Volatiles

Client Lot #...: B4H110333      Work Order #...: GMSVDIAC-MS      Matrix.....: WATER  
 MS Lot-Sample #: B4H120330-002      GMSVDIAD-MSD  
 Date Sampled...: 06/10/04 10:40      Date Received...: 08/12/04 14:30      MS Run #.....: 4226141  
 Prep Date.....: 06/17/04      Analysis Date...: 08/13/04  
 Prep Batch #...: 4226239      Analysis Time...: 03:57  
 Dilution Factor: 1      Analyst ID.....: 015530      Instrument ID...: MSR

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	9.60	ug/L	96	4.3	SW846 8260B
Benzene	ND	10.0	9.51	ug/L	95		SW846 8260B
	ND	10.0	9.15	ug/L	92	3.8	SW846 8260B
Trichloroethene	ND	10.0	9.29	ug/L	93		SW846 8260B
	ND	10.0	8.92	ug/L	89	4.1	SW846 8260B
Toluene	ND	10.0	9.66	ug/L	97		SW846 8260B
	ND	10.0	9.36	ug/L	94	3.2	SW846 8260B
Chlorobenzene	ND	10.0	9.50	ug/L	95		SW846 8260B
	ND	10.0	9.06	ug/L	91	4.7	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(75 - 130)
	99	(75 - 130)
1,2-Dichloroethane-d4	87	(65 - 135)
	97	(65 - 135)
Toluene-d8	103	(80 - 120)
	101	(80 - 120)

NT/MS(S):

Calculations are performed before rounding to avoid round off errors in calculated results.

Red print denotes control parameters



SOUTHERN CALIFORNIA  
**EDISON**

An *EDISON INTERNATIONAL* Company

## ANALYTICAL REPORT

Laboratory Name: Power Production Chemical  
Address: 7301 Fenwick Lane, 2nd Floor  
Westminster, CA 92683-5202

Telephone: (714) 895 0525  
Facsimile: (714) 895 0515

Laboratory Certification (ELAP) No.: 1949 Expires 11/30/05

Laboratory Director's Name: Shawn S. Simmons

Laboratory Director's Signature:

Shawn Simmons 9/17/04  
Date

CLIENT: NRG El Segundo Operations Inc.  
ADDRESS: 301 Vista Del Mar  
El Segundo, CA 90245

DATE(S) SAMPLED: 8/9/04 and 8/10/04  
DATE(S) RECEIVED: 08/10/04

Chain of Custody(ies) Received Yes



SOUTHERN CALIFORNIA  
**EDISON**

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## ANALYTICAL REPORT

### Cover Page 2

NRG P.O. E107095

<u>Inorganic Analyses</u>	# of Samples	# of Samples Subcontracted
Residual Chlorine, in field	36	0
pH, in field	36	0
Temperature, in field	36	0
Oil and Grease	36	0
TSS	4	0
Nitrite-Nitrate-N	4	0
Color	4	0
Sulfate	4	0
Sulfide	4	0
Sulfite	4	0
Magnesium	4	0
BOD	4	4
COD	4	4
TOC	4	4
Ammonia-N	4	4
Bromide	4	4
Total/Fecal Coliform	36	36
Fluoride	4	4
Nitrogen, Total Organic	4	4
Phosphorus, Total	4	4
Radioactivity, Total Alpha	4	4
Radioactivity, Total Beta	4	4
Radioactivity, Total Radium	4	4
Radioactivity, Radium 226	4	4
Surfactants	4	4
Trace Metals in Seawater	4	4
Cyanide	36	36
Phenols	36	36
<u>Organic Analyses</u>	# of Samples	# of Samples Subcontracted
VOCs	20	20
SVOCs	4	4
Dioxin	4	4
Pesticides/PCBs	4	4
Sample Condition:	Acceptable	

## Power Production Chemical Test Results

NPDES No. CA0001147

UNITS 1 AND 2	DATE TIME COLLECTED	DATE ANALYZED	PARAMETER	METHOD	RI (mg/L)	Total Chlorine (mg/L)
Units 1&2 Intake	8/9/04 15:55	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Outfall	8/9/04 16:20	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Intake	8/9/04 18:15	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Outfall	8/9/04 18:38	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Intake	8/9/04 20:50	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Outfall	8/9/04 21:00	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Intake	8/9/04 23:40	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Outfall	8/10/04 0:00	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Intake	8/10/04 2:55	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Outfall	8/10/04 3:15	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Intake	8/10/04 5:55	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Outfall	8/10/04 6:15	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Intake	8/10/04 9:15	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Outfall	8/10/04 9:55	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Intake	8/10/04 11:55	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Outfall	8/10/04 12:15	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Intake	8/10/04 14:55	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 1&2 Outfall	8/10/04 15:15	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND

UNITS 1 AND 2	DATE TIME COLLECTED	DATE ANALYZED	PARAMETER	METHOD	MDI (pH unit)	RESULT (pH at °C)
Units 1&2 Intake	8/9/04 15:55	08/09/04	Electrometric pH	EPA 150.1	0.01	7.87 at 21.1°C
Units 1&2 Outfall	8/9/04 16:20	08/09/04	Electrometric pH	EPA 150.1	0.01	8.04 at 20.4°C
Units 1&2 Intake	8/9/04 18:15	08/09/04	Electrometric pH	EPA 150.1	0.01	8.08 at 20.0°C
Units 1&2 Outfall	8/9/04 18:38	08/09/04	Electrometric pH	EPA 150.1	0.01	8.08 at 19.3°C
Units 1&2 Intake	8/9/04 20:50	08/09/04	Electrometric pH	EPA 150.1	0.01	8.12 at 18.6°C
Units 1&2 Outfall	8/9/04 21:00	08/09/04	Electrometric pH	EPA 150.1	0.01	8.12 at 18.5°C
Units 1&2 Intake	8/9/04 23:40	08/09/04	Electrometric pH	EPA 150.1	0.01	8.14 at 18.6°C
Units 1&2 Outfall	8/10/04 0:00	08/10/04	Electrometric pH	EPA 150.1	0.01	8.16 at 18.7°C
Units 1&2 Intake	8/10/04 2:55	08/10/04	Electrometric pH	EPA 150.1	0.01	8.13 at 17.8°C
Units 1&2 Outfall	8/10/04 3:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.17 at 18.1°C
Units 1&2 Intake	8/10/04 5:55	08/10/04	Electrometric pH	EPA 150.1	0.01	8.16 at 18.8°C
Units 1&2 Outfall	8/10/04 6:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.18 at 18.8°C
Units 1&2 Intake	8/10/04 9:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.02 at 17.3°C
Units 1&2 Outfall	8/10/04 9:55	08/10/04	Electrometric pH	EPA 150.1	0.01	8.02 at 17.3°C
Units 1&2 Intake	8/10/04 11:55	08/10/04	Electrometric pH	EPA 150.1	0.01	8.06 at 18.9°C
Units 1&2 Outfall	8/10/04 12:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.05 at 19.6°C
Units 1&2 Intake	8/10/04 14:55	08/10/04	Electrometric pH	EPA 150.1	0.01	7.99 at 19.0°C
Units 1&2 Outfall	8/10/04 15:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.09 at 17.9°C

Power Production Chemical Test Results

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UNITS 3 AND 4	DATE TIME COLLECTED	DATE ANALYZED	PARAMETER	METHOD	RI (mg/L)	Total Chlorine (mg/L)
Units 3&4 Intake	8/9/04 15:20	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Outfall	8/9/04 14:45	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Intake	8/9/04 17:55	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Outfall	8/9/04 17:30	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Intake	8/9/04 20:20	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Outfall	8/9/04 20:35	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Intake	8/9/04 22:15	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Outfall	8/9/04 23:25	08/09/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Intake	8/10/04 2:15	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Outfall	8/10/04 2:35	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Intake	8/10/04 5:15	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Outfall	8/10/04 5:35	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Intake	8/10/04 8:15	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Outfall	8/10/04 8:35	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Intake	8/10/04 11:15	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Outfall	8/10/04 11:35	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Intake	8/10/04 14:15	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND
Units 3&4 Outfall	8/10/04 14:35	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND

UNITS 3 AND 4	DATE TIME COLLECTED	DATE ANALYZED	PARAMETER	METHOD	MIL (pH units)	RESULT (pH at °C)
Units 3&4 Intake	8/9/04 15:20	08/09/04	Electrometric pH	EPA 150.1	0.01	8.14 at 22.0°C
Units 3&4 Outfall	8/9/04 14:45	08/09/04	Electrometric pH	EPA 150.1	0.01	8.11 at 24.1°C
Units 3&4 Intake	8/9/04 17:55	08/09/04	Electrometric pH	EPA 150.1	0.01	8.10 at 21.2°C
Units 3&4 Outfall	8/9/04 17:30	08/09/04	Electrometric pH	EPA 150.1	0.01	8.10 at 21.2°C
Units 3&4 Intake	8/9/04 20:20	08/09/04	Electrometric pH	EPA 150.1	0.01	8.14 at 22.3°C
Units 3&4 Outfall	8/9/04 20:35	08/09/04	Electrometric pH	EPA 150.1	0.01	8.18 at 19.2°C
Units 3&4 Intake	8/9/04 22:15	08/09/04	Electrometric pH	EPA 150.1	0.01	8.13 at 19.4°C
Units 3&4 Outfall	8/9/04 23:25	08/09/04	Electrometric pH	EPA 150.1	0.01	8.18 at 19.1°C
Units 3&4 Intake	8/10/04 2:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.20 at 19.2°C
Units 3&4 Outfall	8/10/04 2:35	08/10/04	Electrometric pH	EPA 150.1	0.01	8.18 at 18.6°C
Units 3&4 Intake	8/10/04 5:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.14 at 18.6°C
Units 3&4 Outfall	8/10/04 5:35	08/10/04	Electrometric pH	EPA 150.1	0.01	8.18 at 18.8°C
Units 3&4 Intake	8/10/04 8:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.20 at 19.3°C
Units 3&4 Outfall	8/10/04 8:35	08/10/04	Electrometric pH	EPA 150.1	0.01	8.02 at 19.9°C
Units 3&4 Intake	8/10/04 11:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.02 at 20.0°C
Units 3&4 Outfall	8/10/04 11:35	08/10/04	Electrometric pH	EPA 150.1	0.01	8.09 at 19.5°C
Units 3&4 Intake	8/10/04 14:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.10 at 19.0°C
Units 3&4 Outfall	8/10/04 14:35	08/10/04	Electrometric pH	EPA 150.1	0.01	8.10 at 19.7°C

## Power Production Chemical Test Results

NPDES No. CA0001147

OIL AND GREASE UNITS 1 AND 2	DATE TIME COLLECTED	DATE ANALYZED	PARAMETER	METHOD	MDL (mg/L)	RESULT (mg/L)
Units 1&2 Intake	8/9/04 15:55	09/02/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Outfall	8/9/04 16:20	09/02/04	Oil and Grease	EPA 1664A LLE	1.4	2.4
Units 1&2 Intake	8/9/04 18:15	08/31/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Outfall	8/9/04 18:38	09/01/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Intake	8/9/04 20:50	08/31/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Outfall	8/9/04 21:00	08/31/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Intake	8/9/04 23:40	09/01/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Outfall	8/10/04 0:00	09/01/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Intake	8/10/04 2:55	09/01/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Outfall	8/10/04 3:15	09/02/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Intake	8/10/04 5:55	09/02/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Outfall	8/10/04 6:15	09/03/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Intake	8/10/04 9:15	09/03/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Outfall	8/10/04 8:55	09/02/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Intake	8/10/04 11:55	09/03/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Outfall	8/10/04 12:15	09/03/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Intake	8/10/04 14:55	09/03/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Outfall	8/10/04 15:15	08/31/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Intake	8/9/04 15:20	08/27/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Outfall	8/9/04 14:45	08/20/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Intake	8/9/04 17:55	08/27/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Outfall	8/9/04 17:30	08/20/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Intake	8/9/04 20:20	08/27/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Outfall	8/9/04 20:35	08/20/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Intake	8/9/04 22:15	08/27/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Outfall	8/9/04 23:25	08/20/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Intake	8/10/04 2:15	08/27/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Outfall	8/10/04 2:35	08/20/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Intake	8/10/04 5:15	08/27/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Outfall	8/10/04 5:35	09/01/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Intake	8/10/04 8:15	08/27/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Outfall	8/10/04 8:35	09/01/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Intake	8/10/04 11:15	09/03/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Outfall	8/10/04 11:35	09/07/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Intake	8/10/04 14:15	09/03/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Outfall	8/10/04 14:35	09/07/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Method Blank		08/20/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Method Blank		08/27/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Method Blank		08/31/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Method Blank		09/01/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Method Blank		09/02/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Method Blank		09/03/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Method Blank		09/07/04	Oil and Grease	EPA 1664A LLE	1.4	ND

## Power Production Chemical Test Results

NPLYES No. CA0001147

SUSPENDED SOLIDS	DATE COLLECTED	DATE ANALYZED	PARAMETER	METHOD	RL (mg/L)	RESULT (mg/L)
Units 1&2 Intake	8/9 to 8/10/04		Total Susp. Solids	SM 2540 D	2.0	11.1
Units 1&2 Outfall C.	8/9 to 8/10/04		Total Susp. Solids	SM 2540 D	2.0	9.0
Units 3&4 Intake	8/9 to 8/10/04		Total Susp. Solids	SM 2540 D	2.0	ND
Units 3&4 Outfall C.	8/9 to 8/10/04		Total Susp. Solids	SM 2540 D	2.0	
Method Blank	8/9 to 8/10/04		Total Susp. Solids	SM 2540 D	1.0	

COLOR	DATE COLLECTED	DATE ANALYZED	PARAMETER	METHOD	RL (mg/L)	RESULT (mg/L)
Units 1&2 Intake C.	8/9 to 8/10/04	08/11/04	Color	SM 2120 B	5	ND
Units 1&2 Outfall C.	8/9 to 8/10/04	08/11/04	Color	SM 2120 B	5	ND
Units 3&4 Intake C.	8/9 to 8/10/04	08/11/04	Color	SM 2120 B	5	ND
Units 3&4 Outfall C.	8/9 to 8/10/04	08/11/04	Color	SM 2120 B	5	ND

NITRITE-NITRATE-N	DATE COLLECTED	DATE ANALYZED	PARAMETER	METHOD	RL (mg/L)	RESULT (mg/L)
Units 1&2 Intake C.	8/9 to 8/10/04	08/11/04	Nitrite-Nitrate-N	EPA 300.0	1	ND
Units 1&2 Outfall C.	8/9 to 8/10/04	08/11/04	Nitrite-Nitrate-N	EPA 300.0	1	ND
Units 3&4 Intake C.	8/9 to 8/10/04	08/11/04	Nitrite-Nitrate-N	EPA 300.0	1	ND
Units 3&4 Outfall C.	8/9 to 8/10/04	08/11/04	Nitrite-Nitrate-N	EPA 300.0	1	ND
Method Blank		08/11/04	Nitrite-Nitrate-N	EPA 300.0	1	ND

SULFATE	DATE COLLECTED	DATE ANALYZED	PARAMETER	METHOD	RL (mg/L)	RESULT (mg/L)
Units 1&2 Intake C.	8/9 to 8/10/04	08/11/04	Sulfate	EPA 300.0	200	2550
Units 1&2 Outfall C.	8/9 to 8/10/04	08/11/04	Sulfate	EPA 300.0	200	2560
Units 3&4 Intake C.	8/9 to 8/10/04	08/11/04	Sulfate	EPA 300.0	200	2580
Units 3&4 Outfall C.	8/9 to 8/10/04	08/11/04	Sulfate	EPA 300.0	200	2590
Method Blank		08/11/04	Sulfate	EPA 300.0	2	ND

SULFITE	DATE COLLECTED	DATE ANALYZED	PARAMETER	METHOD	RL (mg/L)	RESULT (mg/L)
Units 1&2 Intake C.	8/9 to 8/10/04	08/11/04	Sulfite	SM 4500-SO <sub>3</sub> <sup>2-</sup> B	1	ND
Units 1&2 Outfall C.	8/9 to 8/10/04	08/11/04	Sulfite	SM 4500-SO <sub>3</sub> <sup>2-</sup> B	1	ND
Units 3&4 Intake C.	8/9 to 8/10/04	08/11/04	Sulfite	SM 4500-SO <sub>3</sub> <sup>2-</sup> B	1	ND
Units 3&4 Outfall C.	8/9 to 8/10/04	08/11/04	Sulfite	SM 4500-SO <sub>3</sub> <sup>2-</sup> B	1	ND

SULFIDE	DATE COLLECTED	DATE ANALYZED	PARAMETER	METHOD	RL (mg/L)	RESULT (mg/L)
Units 1&2 Intake C.	8/9 to 8/10/04	08/11/04	Sulfide	SM 4500-S <sup>2-</sup> D	0.02	ND
Units 1&2 Outfall C.	8/9 to 8/10/04	08/11/04	Sulfide	SM 4500-S <sup>2-</sup> D	0.02	ND
Units 3&4 Intake C.	8/9 to 8/10/04	08/11/04	Sulfide	SM 4500-S <sup>2-</sup> D	0.02	ND
Units 3&4 Outfall C.	8/9 to 8/10/04	08/11/04	Sulfide	SM 4500-S <sup>2-</sup> D	0.02	ND

SCE Test Results

Sample ID	Sample Date	Analysis Date	Analyte	Method	Result	Accept. Range
Units 1&2 Intake C.	8/9 to 8/10/04	08/12/04	Total Magnesium	SM 3111B	40	1190
Units 1&2 Outfall C.	8/9 to 8/10/04	08/12/04	Total Magnesium	SM 3111B	40	1190
Units 3&4 Intake C.	8/9 to 8/10/04	08/12/04	Total Magnesium	SM 3111B	40	1190
Units 3&4 Outfall C.	8/9 to 8/10/04	08/12/04	Total Magnesium	SM 3111B	40	1160
Method Blank		08/12/04	Total Magnesium	SM 3111B	0.02	ND

Laboratory Control Sample						
Analyte	Date Analyzed		LCS Conc. (mg/L)	Result (mg/L)	LCS Recovery	Accept. Range
Nitrate-N WP-111	08/11/04		5.46	5.69	104%	79-119%
Sulfate ERA 506	08/11/04		34.6	34.6	100%	85-115%
Oil and Grease OPR	08/27/04		40.0	37.5	94%	78-114%
Oil and Grease QA	08/31/04		28.0	27.1	97%	78-114%
Oil and Grease OPR	09/01/04		40.0	34.8	87%	78-114%
Oil and Grease OPR	09/03/04		4.0	3.7	93%	78-114%
Oil and Grease OPR	09/07/04		40.0	34.3	86%	78-114%

Matrix Spike							
Analyte	Date Analyzed		Sample Spiked	Spike Conc. (mg/L)	MS (mg/L)	MS Recovery	Accept. Range
Oil and Grease	07/20/04		LD-940712-RB-OG-1	40.0	42.5	106%	78-114%
Nitrate-N	08/11/04		Units 3&4 Outfall	5.18	5.17	103%	85-115%
Sulfate	08/11/04		Units 1&2 Outfall	10.0	10.0	100%	85-115%









		UNIT 1 and 2 OVERALL RESULT										UNIT 1 and 2 BREAKDOWN									
Year	00	01	02	03	04	05	06	07	08	09	10	Time	00	01	02	03	04	05	06	07	08
Completed	16:26	16:36	16:46	16:56	17:06	17:16	17:26	17:36	17:46	17:56	18:06	Completed	15:45	15:55	16:05	16:15	16:25	16:35	16:45	16:55	17:05
1-20	--	--	--	--	--	--	--	--	--	--	--	<1.0	--	--	--	--	--	--	--	--	--
1-10	--	--	--	--	--	--	--	--	--	--	--	<1.0	--	--	--	--	--	--	--	--	--
1-5	--	--	--	--	--	--	--	--	--	--	--	<2.0	--	--	--	--	--	--	--	--	--

PCB 1260  
 PCB 1016  
 Dioxins

UNIT 3 and 4 OUTFALL RESULTS										UNIT 3 and 4 EXHAUST RESULTS									
Time	30	35	40	45	50	55	60	65	70	Time	30	35	40	45	50	55	60	65	70
Concentration	14.45	17.39	20.35	23.25	25.6	28.5	31.15	34.35	37.5	Concentration	15.20	17.85	20.30	23.15	25.45	28.15	30.15	32.15	34.15
<b>PART A - SOLUBLE</b>																			
Biochemical Oxygen Demand (BOD)	mg/L																		
Chemical Oxygen Demand (COD)	mg/L																		
Total Organic Carbon (TOC)	mg/L																		
Total Suspended Solids (TSS)	mg/L																		
Ammonia (as N)	mg/L																		
Flow	mgd	389	249	189	389	389	389	389	389	389	389	389	389	389	389	389	389	389	389
Temperature	°C																		
pH	pH unit																		
<b>PART B - NON-SOLUBLE</b>																			
Bromide	mg/L																		
Chloride, Total Residual	mg/L																		
Coke	mg/L																		
Fecal Coliform	mg/L																		
Flux of	mg/L																		
Mercury-Methyl (as Hg)	mg/L																		
Nitrogen, Total Organic (as N)	mg/L																		
Oil and Grease	mg/L																		
Phosphorus (as P), Total	mg/L																		
Radioactivity, Total Alpha	pCi/L																		
Radioactivity, Total Beta	pCi/L																		
Radioactivity, Total Radium	pCi/L																		
Radioactivity, Total Radium 226	pCi/L																		
Sulfate (as SO4)	mg/L																		
Sulfate (as S)	mg/L																		
Sulfide (as S)	mg/L																		
Sulfuric Acid	mg/L																		
Aluminum, Total	mg/L																		
Barium, Total	mg/L																		
Boron, Total	mg/L																		
Cobalt, Total	mg/L																		
Iron, Total	mg/L																		
Magnesium, Total	mg/L																		
Molybdenum, Total	mg/L																		
Manganese, Total	mg/L																		
Tin, Total	mg/L																		
Titanium, Total	mg/L																		
<b>METALS, CYANIDE AND TOTAL PHENOLS</b>																			
Antimony, Total	mg/L																		
Arsenic, Total	mg/L																		
Beryllium, Total	mg/L																		
Cadmium, Total	mg/L																		



UNITS 3 and 4 DETAIL RESULT													UNITS 3 and 4 DETAIL REMEDIAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Time	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0	180.0	185.0	190.0	195.0	200.0	205.0	210.0	215.0	220.0	225.0	230.0	235.0	240.0	245.0	250.0	255.0	260.0	265.0	270.0	275.0	280.0	285.0	290.0	295.0	300.0	305.0	310.0	315.0	320.0	325.0	330.0	335.0	340.0	345.0	350.0	355.0	360.0	365.0	370.0	375.0	380.0	385.0	390.0	395.0	400.0	405.0	410.0	415.0	420.0	425.0	430.0	435.0	440.0	445.0	450.0	455.0	460.0	465.0	470.0	475.0	480.0	485.0	490.0	495.0	500.0	505.0	510.0	515.0	520.0	525.0	530.0	535.0	540.0	545.0	550.0	555.0	560.0	565.0	570.0	575.0	580.0	585.0	590.0	595.0	600.0	605.0	610.0	615.0	620.0	625.0	630.0	635.0	640.0	645.0	650.0	655.0	660.0	665.0	670.0	675.0	680.0	685.0	690.0	695.0	700.0	705.0	710.0	715.0	720.0	725.0	730.0	735.0	740.0	745.0	750.0	755.0	760.0	765.0	770.0	775.0	780.0	785.0	790.0	795.0	800.0	805.0	810.0	815.0	820.0	825.0	830.0	835.0	840.0	845.0	850.0	855.0	860.0	865.0	870.0	875.0	880.0	885.0	890.0	895.0	900.0	905.0	910.0	915.0	920.0	925.0	930.0	935.0	940.0	945.0	950.0	955.0	960.0	965.0	970.0	975.0	980.0	985.0	990.0	995.0	1000.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Compound	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1



		UNITS 3 and 4 OUTAGE RESULT										UNITS 3 and 4 INTRAC RESULT									
		8:00	8:05	8:10	8:15	8:20	8:25	8:30	8:35	8:40	8:45	8:50	8:55	9:00	9:05	9:10	9:15	9:20	9:25	9:30	9:35
PCIS 1250	µB/L																				
PCIS 1016	µg/L																				
T.ophanes	µg/L																				
Time		14:45	17:20	19:05	21:25	23:05	24:55	26:45	28:35	30:25	32:15	34:05	35:55	37:45	39:35	41:25	43:15	45:05	46:55	48:45	50:35
Completed		14:45	17:20	19:05	21:25	23:05	24:55	26:45	28:35	30:25	32:15	34:05	35:55	37:45	39:35	41:25	43:15	45:05	46:55	48:45	50:35
		<1.0																			
		<1.0																			
		<1.0																			

September 16, 2004

Mr. Paul Mead  
Calaiscience Environmental Laboratories  
7140 Lincoln Way  
Garden Grove, CA 92641-1432

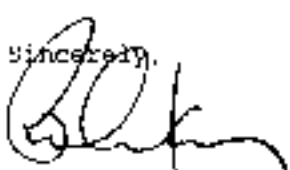
**Wastewater Characterization**  
**04-08-0549**  
**Pace Project No. 04-1139**

Dear Mr. Mead:

Enclosed are analytical results for samples submitted by Calaiscience Environmental Laboratories. Samples were received on August 13, 2004 and logged in for analysis on August 16, 2004.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAP Standards. Any deviations or discrepancies from the NELAP standards are documented in the same narrative(s) of this report. If you have any questions, please call me at 724-722-5219.

Sincerely,



Richard M. Kinney  
Radiochemistry Laboratory Supervisor

RNK:jan

Enclosures

PACE ANALYTICAL SERVICES, INC.  
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 04-1139  
CLIENT: 04-38-0549

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0408-0411	1&2 Intake Composite	0408-0412	1&2 Outfall Composite
0408-0413	3&4 Intake Composite	0408-0414	3&4 Outfall Composite

C: SHIPPING/RECEIVING COMMENTS:

Final Report 9/16/04.

II. PREPARATION/ANALYSTS COMMENTS:

A: RADIOLOGICAL:

NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as received basis.

000003

Table 1  
General Data Table  
CalScience Environmental Laboratories  
Pace Project No. 04-1139  
Wastewater Characterization, 04-08-0549

Parameter	Analytical Method	Units	Sample Identification	
			Analyzed	Acc. - Unc. (MDC)
Gross Alpha	EPA 900.0	pCi/l	09/01/04	-26.4 ± 20.5 (51.7)
Gross Beta	EPA 900.0	pCi/L	09/01/04	33.9 ± 17.4 (29.6)
Pu-238 (EPA 903.1)	EPA 903.1	pCi/L	09/02/04	0.543 ± 0.458 (0.630)
Radium (Total Alpha)	932C	pCi/L	09/15/04	0.429 ± 0.502 (0.617)

wh-Activity, Unc-2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

000004

Table 1  
(Continued)

04

Parameter	Analytical Method	Units	Sample Identification		Page 2 of 5
			Analyzed	Act. ± Unc. (MDC)	
			0408-0412		
			152 Outfall Composite (8/10/04)		
Gross Alpha	EPA 900.0	DCI/L	09/01/04	16.9 ± 22.2	(42.0)
Gross Beta	EPA 900.0	pCi/L	09/01/04	31.9 ± 16.8	(28.4)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	09/02/04	1.14 ± 0.676	(0.94)
Radium (Total Alpha)	9320	pCi/L	09/06/04	0.037 ± 0.555	(1.22)

Act-activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

000005

Table 1  
(Continued)

05

		Page 3 of 5	
Parameter	Analytical Method	Units	Sample Identification
			Analyzed Act = Unc (MDC)
0408 0413			
364 Intake Composite (8/10/14)			
Gross Alpha	EPA 900.0	pCi/L	08/01/04 69.3 ± 29.1 (72.2)
Gross Beta	EPA 900.0	pCi/L	09/01/04 46.2 ± 18.0 (30.1)
Ra 226 (EPA 903.1)	EPA 903.1	pCi/L	09/02/04 0.597 ± 0.420 (0.598)
Radium (Total Alpha)	9420	pCi/L	09/16/04 -0.173 ± 0.262 (0.859)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

000006

Table 1  
(Continued)

06

Parameter	Analytical Method	Units	Analyzed	ACT ± MDC (MDC)	
					Sample Identification
					0408-0414
					344 Outfall Composite
					(8/10/04)
Gross Alpha	EPA 900.0	pCi/L	08/01/04	12.4 ± 26.8	(53.6)
Gross Beta	EPA 900.0	pCi/L	08/01/04	68.8 ± 21.2	(27.6)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	09/02/04	0.324 ± 0.375	(0.608)
Radium (Total Alpha)	9320	pCi/L	09/16/04	3.915 ± 0.546	(0.839)

Page 4 of 4

ACT=Activity, Unc=3 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

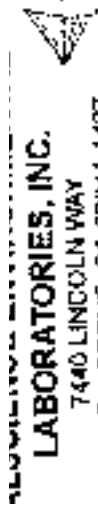
000007

Table 1  
(Continued)

Page 3 of 9

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				0408 0425	Method Blank
				E/11/04:	
				Act	Unc (MDC)
Gross Alpha	EPA 900.0	pCi/L	09/07/04	0.177 ± 0.202	(0.640)
Gross Beta	EPA 900.0	pCi/L	09/01/04	0.235 ± 0.362	(0.750)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	08/31/04	0.140 ± 0.423	(0.778)
Radium (Total Alpha)	9320	pCi/L	09/16/04	0.143 ± 0.233	(0.423)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.



# LABORATORIES, INC.

7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1427  
L: (714) 895-5494 • FAX (714) 894-7501

Laboratory Client:

ESS

STATE

FAX

EMAIL

turnaround time:

same day ☐ 24 hr ☐ 48 hr ☐ 72 hr ☐ 5 days ☐ 10 days

additional requirements (additional costs may apply)

invoice reporting forms ☐ coelt edf ☐

instructions

client project name / number

project contact

sample size (signature)

coelt log coop

temp

p.o. no.

lab use only

coelt receipt

temp

## REQUESTED ANALYSES

TPH (G) (10-3M)  
VOCs (TC-14A) or (TC-15)  
PNAs (B3-0) or (B270C)  
CAC, 122 METALS (B010B)  
PCBs (B062)  
PEST (B081A)  
SVOCs (B270C)  
GC/MS ENCORE PREP  
VOCs (B260B)  
OXYGENATES (B260B)  
BTEX/MTBE (B021B) or (B260B)  
TPH (G) or

NO. OF	MATRIX	SAMPLING		FIELD PORT NAME (FOR CORES) EDF	SAMPLE ID
		DATE	TIME		
1	W	10/1/01	10:00	10-1-01-1000	10-1-01-1000
1	W	10/1/01	10:00	10-1-01-1000	10-1-01-1000
1	W	10/1/01	10:00	10-1-01-1000	10-1-01-1000
1	W	10/1/01	10:00	10-1-01-1000	10-1-01-1000

Received by (Signature)

Received by (Signature)

Received by (Signature)

Received for Laboratory by (Signature)

Relinquished by (Signature)

Relinquished by (Signature)

Relinquished by (Signature)

Relinquished by (Signature)

Relinquished by (Signature)

11/20/01 Revision

STL Los Angeles  
1721 South Grant Avenue  
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921  
www.stl-inc.com

September 1, 2004

STL LOT NUMBER: **E4H110325**  
PO/CONTRACT: V2033901

Shawn Simmons  
Southern California Edison Com  
7301 Fenwick Lane, 2nd Floor  
Westminster, CA 92683

Dear Mr. Simmons,

This report contains the analytical results for the four samples received under chain of custody by STL Los Angeles on August 11, 2004. These samples are associated with your 04121 project.

STL Los Angeles certifies that the test results provided in this laboratory meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is 01118CA.

Any matrix related anomaly is footnoted within the report. A cooler receipt temperature between 2-6 degrees Celsius is within EPA acceptance criteria. The temperature(s) of the cooler received for this project can be found on the Project Receipt Checklist. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page except as noted on the following page.

Preliminary results were sent via facsimile on August 31, 2004.

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**000038**

This report contains \_\_\_\_\_ pages.

**000001**

### CASE NARRATIVE

- 1) There was insufficient sample volume provided to prepare a project-specific MS/MSD for the 8270C analysis. A duplicate LCS has been prepared to provide accuracy and precision measurement for the samples in this project.
- 2) EPA Method 8290 was performed at STL Sacramento. Located at 880 Riverside Parkway, West Sacramento, CA 95605. The contact is Mr. Jon Gilderleeve. Telephone No.: 916-373-5600.

If you have any questions, please feel free to call me at (714) 258-8610.

Sincerely,

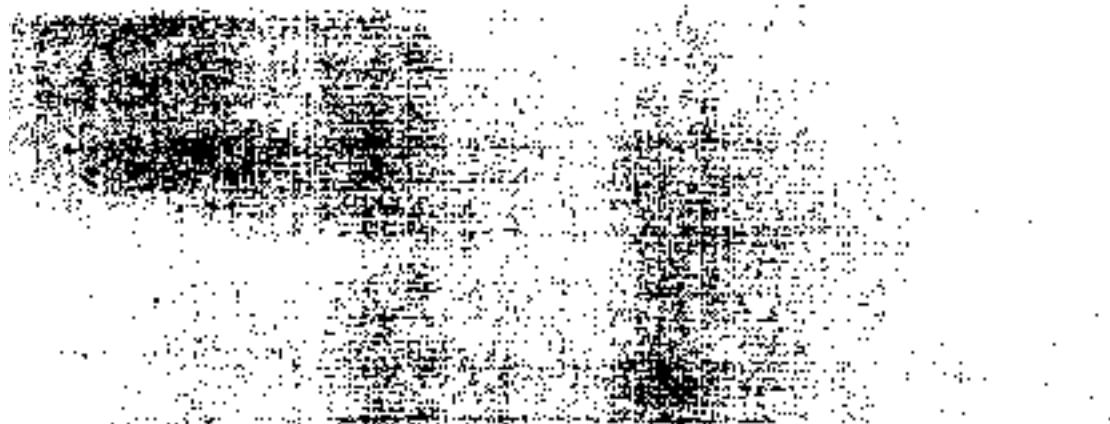


Marisol Tabirara  
Project Manager

cc: Project File



# Analytical Report



## **ANALYTICAL REPORT**

04121

Lot #: E4H110325

Shawn Simmons

Southern California Edison Co.

SEVERN TRENT LABORATORIES, INC.

Marisol Tabirera  
Project Manager

August 31, 2004

## EXECUTIVE SUMMARY - Detection Highlights

B4R110125

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL</u> <u>METHOD</u>
1&2 OUTFALL COMPOSITE 08/10/04 002				
1,2,3,4,6,7,8-HpCDD	130		pg/L	SW846 8290
Total HpCDF	28		pg/L	SW846 8290
Total HpCDD	200		pg/L	SW846 8290
3&4 OUTFALL COMPOSITE 08/10/04 003				
bis (2-Ethylhexyl) phthalate	5.9 J	10	ug/l.	SW846 8270C

## METHODS SUMMARY

BM110325

PARAMETER _____	ANALYTICAL METHOD _____	PREPARATION METHOD _____
Dibenzodioxins and Dibenzofurans, HRC/HRMS	SW846 8290	SW846 8291
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3510C

### References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

## SAMPLE SUMMARY

B4H110325

WC #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GMC44T	001	1#2 INTAKE COMPOSITE	08/10/04	
GMC46	002	1#2 OUTFALL COMPOSITE	08/10/04	
GMC47	003	3#4 INTAKE COMPOSITE	08/10/04	
GMC48	004	3#4 OUTFALL COMPOSITE	08/10/04	

### NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected or are above the stated limit.  
This report must not be reproduced, except in full, without the written approval of the laboratory.
- Request for the following parameters are never reported on a dry weight basis: color, conductivity, density, compress, ignitability, lignin, odor, partic filter no., pH, pressure, radioactivity, redox potential, specific gravity, sp. loss, solids, solubility, temperature, viscosity, and weight.

Southern California Edison Company

Client Sample ID: 1&2 INTAKE COMPOSITE

GC/MS Semivolatiles

Lot Sample #: K4H110325-001	Work Order #: GHN4TLAC	Matrix: WATER
Date Sampled: 08/10/04	Date Received: 08/11/04 14:50	MS Run #: 1
Prep Date: 08/12/04	Analysis Date: 08/12/04	
Prep Batch #: 4225334	Analysis Time: 13:28	
Dilution Factor: 1		
Analyst ID: CC7050	Instrument ID: MSI	
	Method: SWS46 8270C	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MCL
N-Nitrosodimethylamine	ND	20	ug/L	7.0
Benzidine	ND	20	ug/L	13
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	ug/L	2.0
Acenaphthene	ND	10	ug/L	3.0
Acenaphthylene	ND	10	ug/L	2.0
Anthracene	ND	10	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	2.0
Benzo(b)fluoranthene	ND	10	ug/L	5.0
Benzo(k)fluoranthene	ND	10	ug/L	5.0
Benzo(ghi)perylene	ND	10	ug/L	2.0
Benzo(a)pyrene	ND	10	ug/L	2.0
Benzoic acid	ND	50	ug/L	20
Benzyl alcohol	ND	10	ug/L	5.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)- ether	ND	10	ug/L	3.0
bis(2-Chloroisopropyl)- ether	ND	10	ug/L	4.0
bis(2-Ethylhexyl)- phthalate	ND	10	ug/L	4.0
4-Bromophenyl phenyl ether	ND	10	ug/L	2.0
Butyl benzyl phthalate	ND	10	ug/L	4.0
Carbazole	ND	10	ug/L	2.0
4-Chloroaniline	ND	10	ug/L	5.0
4-Chloro-3-methylphenol	ND	10	ug/L	2.0
2-Chloronaphthalene	ND	10	ug/L	3.0
2-Chlorophenol	ND	10	ug/L	3.0
4-Chlorophenyl phenyl ether	ND	10	ug/L	2.0
Chrysene	ND	10	ug/L	3.0
Dibenz(a,h)anthracene	ND	10	ug/L	5.0
Dibenzofuran	ND	10	ug/L	2.0
Di-n-butyl phthalate	ND	10	ug/L	2.0
1,2-Dichlorobenzene	ND	10	ug/L	1.0

(Continued on next page)

## Southern California Edison Company

Client Sample ID: 162 INTAKE COMPOSITE

## GC/MS Semivolatiles

Lot-Sample #: E4K110325-001 Work Order #: G004T1AC Matrix: WATER

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MUL.
1,3-Dichlorobenzene	ND	10	ug/L	2.0
1,4-Dichlorobenzene	ND	10	ug/L	3.0
3,3'-Dichlorobenzidine	ND	50	ug/L	5.0
2,4-Dichlorophenol	ND	10	ug/L	5.0
Diethyl phthalate	ND	10	ug/L	2.0
2,4-Dimethylphenol	ND	10	ug/L	5.0
Dimethyl phthalate	ND	10	ug/L	2.0
4,6-Dinitro 2-methylphenol	ND	50	ug/L	10
2,4-Dinitrophenol	ND	50	ug/L	15
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	4.0
Fluoranthene	ND	10	ug/L	2.0
Fluorene	ND	10	ug/L	2.0
Hexachlorobenzene	ND	10	ug/L	5.0
Hexachlorobutadiene	ND	10	ug/L	2.0
Hexachlorocyclopenta- diene	ND	50	ug/L	6.0
Hexachloroethane	ND	10	ug/L	3.0
Indeno (1,2,3-cd)pyrene	ND	10	ug/L	2.0
Isophorone	ND	10	ug/L	3.0
2-Methylnaphthalene	ND	10	ug/L	3.0
2-Methylphenol	ND	10	ug/L	5.0
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	2.0
Naphthalene	ND	10	ug/L	3.0
2-Nitroaniline	ND	50	ug/L	10
3-Nitroaniline	ND	50	ug/L	5.0
4-Nitroaniline	ND	50	ug/L	10
Nitrobenzene	ND	10	ug/L	5.0
2-Nitrophenol	ND	10	ug/L	4.0
4-Nitrophenol	ND	50	ug/L	10
N-Nitrosodiphenylamine	ND	10	ug/L	2.0
N-Nitrosodi-n-propyl- amine	ND	10	ug/L	4.0
Pentachlorophenol	ND	50	ug/L	10
Phenanthrene	ND	10	ug/L	2.0
Phenol	ND	10	ug/L	2.0
Styrene	ND	10	ug/L	3.0
1,2,4-Trichloro- benzene	ND	10	ug/L	5.0
2,4,6-Trichloro- phenol	ND	10	ug/L	5.0

(Continued on next page)

Southern California Edison Company

Client Sample ID: 142 INTAKE COMPOSITE

GC/MS Semivolatiles

Lab-Sample #: 24H110325-301 Work Order #: 30X4TLAC Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,6-Trichloro-phenol	ND	10	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	60	(45 - 110)
3-Fluorophenol	39	(10 - 75)
2,4,6-Tribromophenol	70	(30 - 125)
Nitrobenzene-d5	60	(40 - 110)
Phenol-d5	25	(10 - 60)
Tetraphenyl-d14	85	(35 - 125)

**Southern California Edison Company**

**Client Sample ID: 1&2 INTAKE COMPOSITE**

**Trace Level Organic Compounds**

**Lot-Sample #...** E4H110325-001    **Work Order #...** GMX4T1AA    **Matrix.....** WATER  
**Date Sampled...** 08/10/04    **Date Received...** 08/11/04 14:50 MS Run #.....  
**Prep Date.....** 08/17/04    **Analysis Date...** 08/18/04  
**Prep Batch #...** 4230179    **Analysis Time...** 05:18  
**Dilution Factor:** 1  
**Analyst ID.....** 002457    **Instrumental ID...** B05

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
1,2,3,7,8-PeCDF	ND	1.1	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	1.1	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	ND	0.94	pg/L	SW846 8290
3,3,4,6,7,8-HxCDF	ND	0.91	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	1.0	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	1.5	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	1.6	pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	ND	2.0	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	ND	2.4	pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	0.83	pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	1.9	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	2.4	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	ND	1.9	pg/L	SW846 8290
Total TCDF	ND	1.0	pg/L	SW846 8290
Total PeCDF	ND	1.1	pg/L	SW846 8290
Total HxCDF	ND	1.0	pg/L	SW846 8290
Total HpCDF	ND	2.3	pg/L	SW846 8290
Total TCDD	ND	0.98	pg/L	SW846 8290
Total PeCDD	ND	1.6	pg/L	SW846 8290
Total HxCDD	ND	2.4	pg/L	SW846 8290
Total HpCDD	ND	2.4	pg/L	SW846 8290
2,3,7,8-TCDD	ND	0.98	pg/L	SW846 8290
2,3,7,8-TCDF	ND	1.0	pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	97	(40 - 135)
13C-1,2,3,7,8-PeCDF	93	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	112	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	101	(40 - 135)
13C-OCDD	99	(40 - 135)
13C-2,3,7,8-TCDF	104	(40 - 135)
13C-1,2,3,7,8-PeCDF	102	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	110	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	109	(40 - 135)

Client Sample ID: 142 OTTFALL COMPOSITE

```

Lot-Sample #....: E4H110325-302  Work Order #....: GMD461AC  Matrix.....: WATER
Date Sampled....: 08/10/04  Date Received...: 08/11/04 14:50 MS Run #.....:
Prep Date.....: 08/12/04  Analysis Date...: 08/12/04
Prep Batch #....: 4225354  Analysis Time...: 15:59
Dilution Factor: 1
Analyst ID.....: 007050  Instrument ID...: MSI
Method.....: SWE46 8270C

```

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
N-Nitrosodimethylamine	ND	20	ug/L
Benzidine	ND	30	ug/L
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	ug/L
Acenaphthene	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
Anthracene	ND	10	ug/L
Benzo(a)anthracene	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(g,h,i)perylene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Benzoic acid	ND	50	ug/L
Benzyl alcohol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
bis(2-Chloroethyl)- ether	ND	10	ug/L
bis(2-Chloroisopropyl)- ether	ND	10	ug/L
bis(2-Ethylhexyl)- phthalate	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
Carbazole	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Chrysene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Dibenzofuran	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L

(Continued on next page)

## Southern California Edison Company

Client Sample ID: 1&amp;2 OUTFALL COMPOSITE

## GC/MS Semivolatiles

Lot-Sample #: S&amp;H10325 002 Work Order #: CHX461AC Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,3-Dichlorobenzene	ND	10	ug/L	2.0
1,4-Dichlorobenzene	ND	10	ug/L	3.0
3,3'-Dichlorobenzidine	ND	50	ug/L	5.0
2,4-Dichlorophenol	ND	10	ug/L	5.0
Diethyl phthalate	ND	10	ug/L	2.0
2,4-Diethylphenol	ND	10	ug/L	5.0
Dimethyl phthalate	ND	10	ug/L	2.0
4,6-Dinitro- 2-methylphenol	ND	50	ug/L	10
2,4-Dinitrophenol	ND	50	ug/L	10
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	4.0
Fluoranthene	ND	10	ug/L	2.0
Fluorene	ND	10	ug/L	2.0
Hexachlorobenzene	ND	10	ug/L	5.0
Hexachlorobutadiene	ND	10	ug/L	2.0
Hexachlorocyclopenta- diene	ND	50	ug/L	6.0
Hexachloroethane	ND	10	ug/L	3.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	2.0
Isophorone	ND	10	ug/L	3.0
2-Methylnaphthalene	ND	10	ug/L	3.0
2-Methylphenol	ND	10	ug/L	5.0
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	2.0
Naphthalene	ND	10	ug/L	3.0
2-Nitroaniline	ND	50	ug/L	10
3-Nitroaniline	ND	50	ug/L	5.0
4-Nitroaniline	ND	50	ug/L	10
Nitrobenzene	ND	10	ug/L	5.0
2-Nitrophenol	ND	10	ug/L	4.0
4-Nitrophenol	ND	50	ug/L	10
N-Nitrosodiphenylamine	ND	10	ug/L	2.0
N-Nitrosodi-n-propyl amine	ND	10	ug/L	4.0
Pentachlorophenol	ND	50	ug/L	10
Phenanthrene	ND	10	ug/L	2.0
Phenol	ND	10	ug/L	2.0
Pyrene	ND	10	ug/L	3.0
1,2,4-Trichloro- benzene	ND	10	ug/L	5.0
2,4,5-Trichloro- phenol	ND	10	ug/L	5.0

(Continued on next page)

Southern California Edison Company

Client Sample ID: 162 OUTFALL COMPOSITE

GC/MS Semivolatiles

Lot-Sample #....: E4H110125-002 Work Order #....: GCX467AC Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,6-Trichloro-phenol	ND	10	ug/L	2.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	87	(45 - 110)
2-Fluorophenol	39	(10 - 75)
2,4,6-Tribromophenol	75	(30 - 125)
Nitrobenzene-d5	58	(40 - 110)
Phenol-d5	26	(10 - 60)
Terphenyl-d14	82	(35 - 125)

## Southern California Edison Company

Client Sample ID: 162 OUTFALL COMPOSITE

## Trace Level Organic Compounds

Lot-Sample #: E4H110325-002    Work Order #: GSK461AA    Matrix: WATER  
 Date Sampled: 08/10/04    Date Received: 08/11/04 14:50 MS Run #:   
 Prep Date: 08/17/04    Analysis Date: 08/18/04  
 Prep Batch #: 4236179    Analysis Time: 01:00  
 Dilution Factor: 1  
 Analyst ID: 002457    Instrument ID: 805

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
1,2,3,7,8-PeCDF	ND	1.4	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	1.4	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	ND	2.4	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	1.4	pg/L	SW846 8290
1,2,2,7,8,9-HxCDF	ND	1.3	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	10	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	2.4	pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	ND	2.4	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	130		pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	1.0	pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	2.6	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	2.8	pg/L	SW846 8290
1,2,3,6,7,8 HxCDD	ND	8.4	pg/L	SW846 8290
Total TCDF	ND	1.3	pg/L	SW846 8290
Total PeCDF	ND	1.4	pg/L	SW846 8290
Total HxCDF	ND	23	pg/L	SW846 8290
Total HpCDF	28		pg/L	SW846 8290
Total TCDD	ND	1.2	pg/L	SW846 8290
Total PeCDD	ND	2.4	pg/L	SW846 8290
Total HxCDD	ND	8.4	pg/L	SW846 8290
Total HpCDD	200		pg/L	SW846 8290
2,3,7,8-TCDF	ND	1.2	pg/L	SW846 8290
2,3,7,8-TCDF	ND	1.3	pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	95	(40 - 135)
13C-1,2,3,7,8-PeCDD	91	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	105	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	96	(40 - 135)
13C-OCDD	97	(40 - 135)
13C-2,3,7,8-TCDF	101	(40 - 135)
13C-1,2,3,7,8-PeCDF	101	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	115	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	106	(40 - 135)

Southern California Edison Company

Client Sample ID: 344 INTAKE COMPOSITE

GC/MS Semivolatiles

Lot-Sample #....: E4H110325-003	Work Order #....: GMX471AC	Matrix.....: WATER
Date Sampled...: 08/10/04	Date Received...: 08/11/04 14:53	MS Run #.....:
Prep Date.....: 08/12/04	Analysis Date...: 08/12/04	
Prep Batch #....: 4225334	Analysis Time...: 16:31	
Dilution Factor: 1		
Analyst ID.....: 007050	Instrument ID...: MHE	
	Method.....: 90946 B270C	

PARAMETER	RESULT	LIMIT	UNITS	MCL
N Nitrosodimethylaniline	ND	20	ug/L	7.0
benzidine	ND	20	ug/L	13
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	ug/L	2.0
Acenaphthene	ND	10	ug/L	3.0
Acenaphthylene	ND	10	ug/L	2.0
Anthracene	ND	10	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	2.0
Benzo(b)fluoranthene	ND	10	ug/L	5.0
Benzo(k)fluoranthene	ND	10	ug/L	5.0
Benzo(ghi)perylene	ND	10	ug/L	2.0
Benzo(a)pyrene	ND	10	ug/L	2.0
Benzoic acid	ND	50	ug/L	20
Benzyl alcohol	ND	10	ug/L	5.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)- ether	ND	10	ug/L	3.0
bis(2-Chloroisopropyl) ether	ND	10	ug/L	4.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	4.0
4-Bromophenyl phenyl ether	ND	10	ug/L	2.0
Butyl benzyl phthalate	ND	10	ug/L	4.0
Carbazole	ND	10	ug/L	2.0
4-Chloroaniline	ND	10	ug/L	3.0
4-Chloro-3-methylphenol	ND	10	ug/L	2.0
2-Chloronaphthalene	ND	10	ug/L	3.0
2-Chlorophenol	ND	10	ug/L	3.0
4-Chlorophenyl phenyl ether	ND	10	ug/L	2.0
Chrysene	ND	10	ug/L	2.0
Dibenz(a,h)anthracene	ND	10	ug/L	5.0
Dibenzofuran	ND	10	ug/L	2.0
Di-n-butyl phthalate	ND	10	ug/L	2.0
1,2-Dichlorobenzene	ND	10	ug/L	3.0

(Continued on next page)

**Southern California Edison Company**

**Client Sample ID: 344 INTAKE COMPOSITE**

**GC/MS Semivolatiles**

**Lot-Sample #...** 24H110325-003    **Work Order #...** 3MX47LAC    **Matrix.....** WATER

PARAMETER	RESULT	REPORTING		MDL	
		LIMIT	UNITS		
1,3-Dichlorobenzene	ND	10	ug/L	2.0	
1,4-Dichlorobenzene	ND	10	ug/L	3.0	
3,3'-Dichlorobenzidine	ND	50	ug/L	5.0	
2,4-Dichlorophenol	ND	10	ug/L	5.0	
Diethyl phthalate	ND	10	ug/L	2.0	
2,4-Dimethylphenol	ND	10	ug/L	5.0	
Dimethyl phthalate	ND	10	ug/L	2.0	
4,6-Dinitro- 2-methylphenol	ND	50	ug/L	10	
2,4-Dinitrophenol	ND	50	ug/L	7.0	
2,4-Dinitrotoluene	ND	10	ug/L	2.0	
2,6-Dinitrotoluene	ND	10	ug/L	2.0	
Di-n-octyl phthalate	ND	10	ug/L	4.0	
Fluoranthene	ND	10	ug/L	2.0	
Fluorene	ND	10	ug/L	2.0	
Hexachlorobenzene	ND	10	ug/L	5.0	
Hexachlorobutadiene	ND	10	ug/L	2.0	
Hexachlorocyclopenta- diene	ND	50	ug/L	6.0	
Hexachloroethane	ND	10	ug/L	3.0	
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	2.0	
Isophorone	ND	10	ug/L	3.0	
2-Methylnaphthalene	ND	10	ug/L	3.0	
2-Methylphenol	ND	10	ug/L	5.0	
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	2.0	
Naphthalene	ND	10	ug/L	3.0	
2-Nitroaniline	ND	50	ug/L	10	
3-Nitroaniline	ND	50	ug/L	5.0	
4-Nitroaniline	ND	50	ug/L	10	
Nitrobenzene	ND	10	ug/L	5.0	
2-Nitrophenol	ND	10	ug/L	4.0	
4-Nitrophenol	ND	50	ug/L	10	
N-Nitrosodiphenylamine	ND	10	ug/L	2.0	
N-Nitrosodi-n-propyl- amine	ND	10	ug/L	4.0	
Pentachlorophenol	ND	50	ug/L	10	
Phenanthrene	ND	10	ug/L	2.0	
Phenol	ND	10	ug/L	2.0	
Pyrene	ND	10	ug/L	3.0	
1,2,4-Trichloro- benzene	ND	10	ug/L	5.0	
2,4,5-Trichloro- phenol	ND	10	ug/L	5.0	

(Continued on next page)

Southern California Edison Company

Client Sample ID: 364 INTAKE COMPOSITE

GC/MS Semivolatiles

Lot-Sample #...: E4N110325-DC3 Work Order #...: GMX471AC Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,6-Trichloro-phenol	ND	15	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	57	(45 - 110)
2-Fluorophenol	40	(10 - 75 )
2,4,6-Tribromophenol	79	(30 - 125)
Nitrobenzene-d5	60	(40 - 110)
Phenol-d5	25	(10 - 60 )
Terphenyl-d11	61	(35 - 125)

Southern California Edison Company

Client Sample ID: 364 INTAKE COMPOSITE

Trace Level Organic Compounds

Lot-Sample #: E4H1C325-003 Work Order #: CMX471AA Matrix: WATER  
 Date Sampled: 08/10/04 Date Received: 08/17/04 14:53 MS Run #:  
 Prep Date: 08/17/04 Analysis Date: 08/18/04  
 Prep Batch #: 4230179 Analysis Time: 01:42  
 Dilution Factor: 1  
 Analyst ID: 002457 Instrument ID: 806

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
1,2,3,7,8-PeCDF	ND	1.2	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	1.2	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	ND	1.1	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	1.1	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	1.2	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	1.3	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	1.9	pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	ND	1.8	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	ND	3.5	pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	0.97	pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	1.6	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	2.2	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	ND	1.8	pg/L	SW846 8290
Total TCDF	ND	1.2	pg/L	SW846 8290
Total PeCDF	ND	1.2	pg/L	SW846 8290
Total HxCDF	ND	1.6	pg/L	SW846 8290
Total HpCDF	ND	0.90	pg/L	SW846 8290
Total TCDD	ND	1.9	pg/L	SW846 8290
Total PeCDD	ND	2.2	pg/L	SW846 8290
Total HxCDD	ND	1.5	pg/L	SW846 8290
Total HpCDD	ND	0.90	pg/L	SW846 8290
2,3,7,8-TCDD	ND	1.2	pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDF	97	(40 - 135)
13C-1,2,3,7,8-PeCDD	94	(40 - 135)
13C-1,2,3,6,7,8 HxCDD	107	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	100	(40 - 135)
13C-OCDF	99	(40 - 135)
13C-2,3,7,8-TCDF	108	(40 - 135)
13C-1,2,3,7,8 PeCDF	104	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	102	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	104	(40 - 135)

**southern California Edison Company**

**Client Sample ID: 344 OUTFALL COMPOSITE**

**GC/MS Semivolatiles**

<b>Lot-Sample #....:</b> E4H113325-004	<b>Work Order #....:</b> G0X481AC	<b>Matrix.....:</b> WATER
<b>Date Sampled...:</b> 08/10/04	<b>Date Received...:</b> 08/11/04 14:50	<b>MS Run #.....:</b>
<b>Prep Date.....:</b> 08/12/04	<b>Analysis Date...:</b> 08/13/04	
<b>Prep Batch #....:</b> 4225134	<b>Analysis Time...:</b> 17:02	
<b>Dilution Factor:</b> 1		
<b>Analyst ID.....:</b> 007050	<b>Instrument ID...:</b> MSI	
	<b>Method.....:</b> SNE46 5370C	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MCL
N-Nitrosodimethylamine	ND	20	ug/L	7.0
Benzidine	ND	20	ug/L	13
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	ug/L	2.0
Acenaphthene	ND	10	ug/L	3.0
Acenaphthylene	ND	10	ug/L	2.0
Anthracene	ND	10	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	2.0
Benzo(b)fluoranthene	ND	10	ug/L	5.0
Benzo(k)fluoranthene	ND	10	ug/L	5.0
Benzo(ghi)perylene	ND	10	ug/L	2.0
Benzo(a)pyrene	ND	10	ug/L	2.0
Benzoic acid	ND	20	ug/L	20
Benzyl alcohol	ND	10	ug/L	5.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	2.0
bis(2-Chloroethyl)- ether	ND	10	ug/L	3.0
bis(2-Chloroisopropyl) ether	ND	10	ug/L	4.0
bis(2-Ethylhexyl) phthalate	5.9 J	10	ug/L	4.0
4-Bromophenyl phenyl ether	ND	10	ug/L	2.0
Butyl benzyl phthalate	ND	10	ug/L	4.0
Carbazole	ND	10	ug/L	2.0
4-Chloroaniline	ND	10	ug/L	3.0
4-Chloro-3-methylphenol	ND	10	ug/L	2.0
1-Chloronaphthalene	ND	10	ug/L	2.0
2-Chlorophenol	ND	10	ug/L	2.0
4-Chlorophenyl phenyl ether	ND	10	ug/L	2.0
Chrysene	ND	10	ug/L	2.0
Dibenz(a,h)anthracene	ND	10	ug/L	5.0
Dibenzofuran	ND	10	ug/L	2.0
Di-n-butyl phthalate	ND	10	ug/L	2.0
1,2-Dichlorobenzene	ND	10	ug/L	1.0

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## Southern California Edison Company

Client Sample ID: 344 OUTFALL COMPOSITE

## GC/MS Semivolatiles

Lot-Sample #...: E4H110325-004 Work Order #...: GMX481AC Matrix.....: WATER

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,3-Dichlorobenzene	ND	10	ug/L	2.0
1,4-Dichlorobenzene	ND	10	ug/L	3.0
3,3'-Dichlorobenzidine	ND	50	ug/L	5.0
2,4-Dichlorophenol	ND	10	ug/L	5.0
Diethyl phthalate	ND	10	ug/L	2.0
2,4-Dimethylphenol	ND	10	ug/L	5.0
Dimethyl phthalate	ND	10	ug/L	2.0
4,6-Dinitro- 2-methylphenol	ND	50	ug/L	10
2,4-Dinitrophenol	ND	50	ug/L	2.0
2,4-Dinitrotoluene	ND	10	ug/L	2.0
2,6-Dinitrotoluene	ND	10	ug/L	2.0
Di-n-octyl phthalate	ND	10	ug/L	4.0
Fluoranthene	ND	10	ug/L	2.0
Fluorene	ND	10	ug/L	2.0
Hexachlorobenzene	ND	10	ug/L	5.0
Hexachlorobutadiene	ND	10	ug/L	2.0
Hexachlorocyclopenta- diene	ND	50	ug/L	6.0
Hexachloroethane	ND	10	ug/L	3.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	2.0
Isophorone	ND	10	ug/L	3.0
2-Methylnaphthalene	ND	10	ug/L	3.0
2-Methylphenol	ND	10	ug/L	5.0
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	2.0
Naphthalene	ND	10	ug/L	3.0
2-Nitroaniline	ND	50	ug/L	10
3-Nitroaniline	ND	50	ug/L	5.0
4-Nitroaniline	ND	50	ug/L	10
Nitrobenzene	ND	10	ug/L	5.0
2-Nitrophenol	ND	10	ug/L	4.0
4-Nitrophenol	ND	50	ug/L	10
N-Nitrosodiphenylamine	ND	10	ug/L	2.0
N-Nitrosodipropyl- amine	ND	10	ug/L	4.0
Pentachlorophenol	ND	50	ug/L	10
Phenanthrene	ND	10	ug/L	2.0
Phenol	ND	10	ug/L	2.0
Pyrene	ND	10	ug/L	3.0
1,2,4-Trichloro- benzene	ND	10	ug/L	5.0
2,4,5-Trichloro- phenol	ND	10	ug/L	5.0

(Continued on next page)

Southern California Edison Company

Client Sample ID: 344 OUTFALL COMPOSITE

GC/MS Semivolatiles

Lot-Sample #: 24H110325-034 Work Order #: 670481AC Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,6-Trichloro-phenol	ND	10	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	63	(45 - 112)
2-Fluorophenol	43	(10 - 75)
2,4,6-Tribromophenol	78	(30 - 125)
Nitrobenzene-d5	64	(40 - 130)
Phenol-d5	28	(10 - 60)
Terphenyl-d14	84	(25 - 125)

NOTE(S):

1. Estimated result. Recovery less than 50%.

## Southern California Edison Company

Client Sample ID: 344 OUTFALL COMPOSITE

## Trace Level Organic Compounds

Lot-Sample #....: E4H110125-004    Work Order #....: GMX481AA    Matrix.....: WATER  
 Date Sampled....: 08/16/04    Date Received...: 08/17/04 14:50 MS Run #.....:  
 Prep Date.....: 08/17/04    Analysis Date...: 08/18/04  
 Prep Batch #....: 4230179    Analysis Time...: 02:24  
 Dilution Factor: 1  
 Analyst ID.....: 602467    Instrument ID...: 805

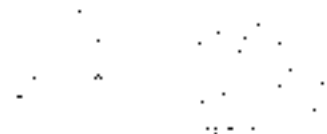
PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
1,2,3,7,8-PeCDF	ND	1.6	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	1.6	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	ND	1.3	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	1.3	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	1.5	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	1.8	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	2.3	pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	ND	2.3	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	ND	6.8	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	ND	1.2	pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDD	ND	2.3	pg/L	SW846 8290
1,2,3,4,7,8-ClCDD	ND	2.7	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	ND	2.2	pg/L	SW846 8290
Total TCDF	ND	1.5	pg/L	SW846 8290
Total PeCDF	ND	1.6	pg/L	SW846 8290
Total HxCDF	ND	1.5	pg/L	SW846 8290
Total HpCDF	ND	2.3	pg/L	SW846 8290
Total TCDD	ND	1.2	pg/L	SW846 8290
Total PeCDD	ND	2.3	pg/L	SW846 8290
Total HxCDD	ND	2.7	pg/L	SW846 8290
Total HpCDD	ND	6.8	pg/L	SW846 8290
2,3,7,8-TCDF	ND	1.2	pg/L	SW846 8290
3,3,7,8-TCDF	ND	1.5	pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDF	94	(40 - 135)
13C-1,2,3,7,8-PeCDD	89	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	107	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	91	(40 - 135)
13C-TCDD	86	(40 - 135)
13C-2,3,7,8-TCDF	101	(40 - 135)
13C-1,2,3,7,8-PeCDF	98	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	117	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	103	(40 - 135)

SEVERN  
TRENT

STL

QA/QC



# QC DATA ASSOCIATION SUMMARY

B4B110325

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PRSP BATCH #</u>	<u>MS RUN#</u>
001	WATER	SW846 8290		4230179	
	WATER	SW846 8270C		4225334	
002	WATER	SW846 8290		4230179	
	WATER	SW846 8270C		4225334	
003	WATER	SW846 8290		4230179	
	WATER	SW846 8270C		4225334	
004	WATER	SW846 8290		4230179	
	WATER	SW846 8270C		4225334	

# METHOD BLANK REPORT

## GC/MS Semivolatiles

Client Lot #....: E4H110325  
 MB Lot-Sample #: E4H12005C-334

Work Order #....: G00P512A

Matrix.....: WATER

Analysis Date...: 06/12/04  
 Dilution Factor: 1

Prep Date.....: 08/12/04  
 Prep Batch #....: 4225334

Analysis Time...: 13:55  
 Instrument ID...: KSI

Analyst ID.....: DC7050

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Benzidine	ND	20	ug/L	SW846	8270C
N-Nitrosodimethylamine	ND	20	ug/L	SW846	8270C
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	ug/L	SW846	8270C
Acenaphthene	ND	10	ug/L	SW846	8270C
Acenaphthylene	ND	10	ug/L	SW846	8270C
Anthracene	ND	10	ug/L	SW846	8270C
Benzo(a)anthracene	ND	10	ug/L	SW846	8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846	8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846	8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846	8270C
Benzo(a)pyrene	ND	10	ug/L	SW846	8270C
Benzoic acid	ND	50	ug/L	SW846	8270C
Benzyl alcohol	ND	10	ug/L	SW846	8270C
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846	8270C
bis(2-Chloroethyl)- ether	ND	10	ug/L	SW846	8270C
bis(2-Chloroisopropyl)- ether	ND	10	ug/L	SW846	8270C
bis(2-Ethylhexyl)- phthalate	ND	10	ug/L	SW846	8270C
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846	8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846	8270C
Carbazole	ND	10	ug/L	SW846	8270C
4-Chloroaniline	ND	10	ug/L	SW846	8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846	8270C
2-Chloronaphthalene	ND	10	ug/L	SW846	8270C
2-Chlorophenol	ND	10	ug/L	SW846	8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846	8270C
Chrysene	ND	10	ug/L	SW846	8270C
3-Benz(a,b)anthracene	ND	10	ug/L	SW846	8270C
Dibenzofuran	ND	10	ug/L	SW846	8270C
Di-n-butyl phthalate	ND	10	ug/L	SW846	8270C
1,2-Dichlorobenzene	ND	10	ug/L	SW846	8270C
1,3-Dichlorobenzene	ND	10	ug/L	SW846	8270C
1,4-Dichlorobenzene	ND	10	ug/L	SW846	8270C
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846	8270C

(Continued on next page)

# METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #....: E4H110325

Work Order #....: GM1P51AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
Diethyl phthalate	ND	10	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C
4,6-Dinitro- 2-methylphenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	10	ug/L	SW846 8270C
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270C
Fluoranthene	ND	10	ug/L	SW846 8270C
Fluorene	ND	10	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	50	ug/L	SW846 8270C
Hexachlorocyclopenta- diene	ND	10	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
4-Methylphenol & 4-Methylphenol	ND	10	ug/L	SW846 8270C
Naphthalene	ND	50	ug/L	SW846 8270C
2-Nitroaniline	ND	50	ug/L	SW846 8270C
3-Nitroaniline	ND	50	ug/L	SW846 8270C
4-Nitroaniline	ND	10	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C
2-Nitrophenol	ND	10	ug/L	SW846 8270C
4-Nitrophenol	ND	10	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodi-n-propyl- amine	ND	50	ug/L	SW846 8270C
Pentachlorophenol	ND	10	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Phenol	ND	10	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
1,2,4-Trichloro- benzene	ND	10	ug/L	SW846 8270C
2,4,5-Trichloro- phenol	ND	10	ug/L	SW846 8270C
2,4,6-Trichloro- phenol	ND	10	ug/L	SW846 8270C

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# METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #....: E4H110325

Work Order #....: GM1251AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS		
1-Fluorobiphenyl	65	(45 - 110)		
2-Fluorophenol	38	(10 - 75)		
2,4,6-Tribromophenol	86	(30 - 125)		
Nitrobenzene-d5	65	(40 - 110)		
Phenol-d5	23	(10 - 60)		
terphenyl-d14	84	(35 - 125)		

## NOTE(S):

Calculations are performed before rounding to report result and errors to calculated results.

# METHOD BLANK REPORT

## Trace Level Organic Compounds

Client Lot #...: E4H110325  
 MB Lot-Sample #: G4H170009-179

Work Order #...: GM9211AA

Matrix.....: WATER

Analysis Date...: 08/17/04  
 Dilution Factor: 1

Prep Date.....: 08/17/04

Analysis Time...: 19:26

Prep Batch #...: 4230179

Instrument ID...: S05

Analyst ID.....: 002457

PARAMETER	RESULT	DETECTION		METHOD
		LIMIT	UNITS	
1,2,3,7,8-PeCDF	ND	1.0	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	1.0	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	ND	0.93	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	0.91	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	1.0	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	2.2	pg/L	SW846 8290
Total TCDF	ND	1.1	pg/L	SW846 8290
Total PeCDF	ND	1.0	pg/L	SW846 8290
Total HxCDF	ND	1.0	pg/L	SW846 8290
Total HpCDF	ND	2.4	pg/L	SW846 8290
Total TCDD	ND	0.88	pg/L	SW846 8290
Total PeCDD	ND	1.8	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	1.8	pg/L	SW846 8290
Total HxCDD	ND	1.9	pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	ND	1.6	pg/L	SW846 8290
Total HpCDD	ND	5.9	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	ND	5.9	pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	0.83	pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	1.5	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	1.9	pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	1.5	pg/L	SW846 8290
2,3,7,8-TCDF	ND	0.88	pg/L	SW846 8290
2,3,7,8-TCDF	ND	1.1	pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS	
13C-2,3,7,8-TCDD	96	(40 - 135)	
13C-1,2,3,7,8-PeCDD	96	(40 - 135)	
13C-1,2,3,6,7,8-HxCDD	99	(40 - 135)	
13C-1,2,3,4,6,7,8-HpCDD	103	(40 - 135)	
13C-OCDF	112	(40 - 135)	
13C-2,3,7,8-TCDF	102	(40 - 135)	
13C-1,2,3,7,8-PeCDF	102	(40 - 135)	
13C-1,2,3,4,7,8-HxCDF	98	(40 - 135)	
13C-1,2,3,4,6,7,8-HpCDF	100	(40 - 135)	

### NOTE (6):

Calculations are performed before rounding to avoid round-off errors in calculated results

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #....: 34H110325      Work Order #....: GM1P51AC-LCS      Matrix.....: WATER  
 LCS lot-sample#: BAH720000-334      GM1P51AD-LCSD  
 Prep Date.....: 08/12/04      Analysis Date...: 08/12/04  
 Prep Batch #....: 4225334      Analysis Time...: 14:26  
 Dilution Factor: 1      Instrument ID...: MS1  
 Analyst ID.....: 007050

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RFD	RFD LIMITS	METHOD
Acenaphthene	89	(50 - 100)			SW846 8270C
4-Chloro-3-methylphenol	86	(50 - 100)	3.6	(0-30)	SW846 8270C
	89	(45 - 95)			SW846 8270C
2-Chlorophenol	91	(45 - 95)	2.2	(0-30)	SW846 8270C
	70	(45 - 95)			SW846 8270C
1,4-Dichlorobenzene	70	(45 - 95)	0.65	(0-30)	SW846 8270C
	65	(35 - 95)			SW846 8270C
2,4-Dinitrotoluene	61	(35 - 95)	5.6	(0-30)	SW846 8270C
	96	(50 - 115)			SW846 8270C
4 Nitrophenol	95	(50 - 115)	0.51	(0-30)	SW846 8270C
	33	(10 - 50)			SW846 8270C
N-Nitrosodi-n-propyl- amine	37	(10 - 50)	11	(0-30)	SW846 8270C
	79	(40 - 110)			SW846 8270C
	83	(40 - 110)	4.9	(0-30)	SW846 8270C
Pentachlorophenol	102	(40 - 110)			SW846 8270C
	107	(40 - 110)	4.0	(0-30)	SW846 8270C
Phenol	31	(10 - 50)			SW846 8270C
	32	(10 - 50)	5.4	(0-30)	SW846 8270C
Pyrene	95	(50 - 120)			SW846 8270C
	94	(50 - 120)	0.44	(0-30)	SW846 8270C
1,2,4-Trichloro- benzene	68	(35 - 105)			SW846 8270C
	66	(35 - 105)	2.9	(0-30)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	86	(45 - 110)
	82	(45 - 110)
2-Fluorophenol	45	(10 - 75)
	47	(10 - 75)
2,4,6-Tribromophenol	99	(30 - 125)
	99	(30 - 125)
Nitrobenzene-d5	75	(40 - 110)
	76	(40 - 110)
Phenol-d5	28	(10 - 60)
	30	(10 - 60)

(Continued on next page)

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #...: E4H110325      Work Order #...: GM1P51AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: E4H120003-334      GM1P51AB-LCSD

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Terphenyl-d14	87	{35 - 125}
	98	{35 - 125}

NOTE(S): \_\_\_\_\_

Calculations are performed before rounding to avoid round-off errors in calculated results.

Note 7) at denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #....: E4K110325      Work Order #....: GM1P51AC-LCS      Matrix.....: WATER  
 LCS Lot Sample#: E4H120000 334      GM1P51AD-LCSD  
 Prep Date.....: 08/12/04      Analysis Date...: 08/12/04  
 Prep Batch #....: 4225334      Analysis Time...: 14:26  
 Dilution Factor: 1      Instrument ID...: MSI  
 Analyst ID.....: 007050

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Arenaphthene	100	89.0	ug/L	89		SM846 8270C
	100	85.9	ug/L	86	3.6	SM846 8270C
4-Chloro-3-methylphenol	100	89.1	ug/L	89		SM846 8270C
	100	91.1	ug/L	91	2.2	SM846 8270C
2-Chlorophenol	100	69.8	ug/L	70		SM846 8270C
	100	70.2	ug/L	70	0.65	SM846 8270C
1,4-Dichlorobenzene	100	64.9	ug/L	65		SM846 8270C
	100	61.1	ug/L	61	5.6	SM846 8270C
2,4-Dinitrotoluene	100	95.8	ug/L	96		SM846 8270C
	100	95.4	ug/L	95	0.51	SM846 8270C
4-Nitrophenol	100	33.3	ug/L	33		SM846 8270C
	100	37.1	ug/L	37	11	SM846 8270C
N-Nitrosodi-n-propyl-amine	100	79.4	ug/L	79		SM846 8270C
	100	83.3	ug/L	83	4.9	SM846 8270C
Pentachlorophenol	100	102	ug/L	102		SM846 8270C
	100	107	ug/L	107	4.0	SM846 8270C
Phenol	100	30.5	ug/L	31		SM846 8270C
	100	32.2	ug/L	32	5.4	SM846 8270C
Pyrene	100	94.8	ug/L	95		SM846 8270C
	100	94.4	ug/L	94	0.44	SM846 8270C
1,2,4-Trichloro-benzene	100	68.3	ug/L	68		SM846 8270C
	100	66.3	ug/L	66	2.9	SM846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	86	(45 - 110)
	82	(45 - 110)
2-Fluorophenol	45	(10 - 75)
	47	(10 - 75)
2,4,6-Tribromophenol	99	(30 - 125)
	99	(30 - 125)
Nitrobenzene d5	75	(40 - 110)
	76	(40 - 110)
Phenol-d5	28	(10 - 60)
	30	(10 - 60)

(Continued on next page)

# LABORATORY CONTROL SAMPLE DATA REPORT

## GC/MS Semivolatiles

Client Lot #...: B4H110325      Work Order #...: GM1P51AC LCS      Matrix.....: WATER  
 LCS Lot-Sample#: K4H120000-334      GM1P51AD-LCSE

	PERCENT RECOVERY	RECOVERY LIMITS
SURROGATE _____		
Terphenyl-d14	87	(38 - 125)
	88	(35 - 125)

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results  
 Bold print denotes control parameters

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## Trace Level Organic Compounds

Client Lot #....: E4H110325      Work Order #....: GM9211AC      Matrix.....: WATER  
 LCS (Lot-Sample#): G4H170003-179  
 Prep Date.....: 08/17/04      Analysis Date...: 08/17/04  
 Prep Batch #....: 4230179      Analysis Time...: 20:08  
 Dilution Factor: 1      Instrument ID...: 8DS  
 Analyst ID.....: 602457

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,2,3,7,8-PeCDD	105	(65 - 141)	SW846 8290
1,2,3,4,7,8-HxCDD	91	(54 - 147)	SW846 8290
1,2,3,6,7,8-HxCDD	110	(70 - 133)	SW846 8290
1,2,3,7,8,9-HxCDD	105	(68 - 147)	SW846 8290
1,2,3,4,6,7,8-HpCDD	113	(75 - 130)	SW846 8290
1,2,3,7,8-PeCDF	109	(77 - 131)	SW846 8290
2,3,4,7,8-PeCDF	102	(65 - 137)	SW846 8290
1,2,3,4,7,8-HxCDF	117	(75 - 131)	SW846 8290
1,2,3,6,7,8-HxCDF	129	(69 - 141)	SW846 8290
2,3,4,6,7,8-HxCDF	123	(68 - 170)	SW846 8290
1,2,3,7,8,9-HxCDF	110	(65 - 158)	SW846 8290
1,2,3,4,6,7,8-HpCDF	111	(77 - 129)	SW846 8290
1,2,3,4,7,8,9-HpCDF	116	(69 - 139)	SW846 8290
2,3,7,8-TCDD	101	(72 - 137)	SW846 8290
2,3,7,8-TCDF	108	(67 - 140)	SW846 8290
OCDD	112	(78 - 127)	SW846 8290
OCDF	119	(67 - 140)	SW846 8290

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	96	(40 - 135)
13C-1,2,3,7,8-PeCDD	97	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	107	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	98	(40 - 135)
13C-OCDD	99	(40 - 135)
13C-2,3,7,8-TCDF	106	(40 - 135)
13C-1,2,3,7,8-PeCDF	107	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	104	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	102	(40 - 135)

NOTE(s):

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

# LABORATORY CONTROL SAMPLE DATA REPORT

## Trace Level Organic Compounds

Client Lot #...: 24H10326  
 LCS Lot-Sample#: G4H170000-179  
 Prep Date.....: 08/17/04  
 Prep Batch #...: 4230179  
 Dilution Factor: 1  
 Analyst ID.....: 002457

Work Order #...: GM9211AC  
 Analysis Date...: 08/17/04  
 Analysis Time...: 20:03  
 Instrument ID...: 805

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,2,3,7,8-PeCDD	1000	1050	pg/L	105	SW846 8290
1,2,3,4,7,8-HxCDD	1000	909	pg/L	91	SW846 8290
1,2,3,6,7,8-HxCDD	1000	1100	pg/L	110	SW846 8290
1,2,3,7,8,9-HxCDD	1000	1050	pg/L	105	SW846 8290
1,2,3,4,6,7,8-HpCDD	1000	1130	pg/L	113	SW846 8290
1,2,3,7,8-PeCDF	1000	1090	pg/L	109	SW846 8290
2,3,4,7,8-PeCDF	1000	1020	pg/L	102	SW846 8290
1,2,3,4,7,8-HxCDF	1000	1170	pg/L	117	SW846 8290
1,2,3,6,7,8-HxCDF	1000	1290	pg/L	129	SW846 8290
2,3,4,6,7,8-HxCDF	1000	1230	pg/L	123	SW846 8290
1,2,3,7,8,9-HxCDF	1000	1100	pg/L	110	SW846 8290
1,2,3,4,6,7,8-HpCDF	1000	1110	pg/L	111	SW846 8290
1,2,3,4,7,8,9-HpCDF	1000	1160	pg/L	116	SW846 8290
2,3,7,8-TCDD	200	202	pg/L	101	SW846 8290
2,3,7,8-TCDF	200	216	pg/L	108	SW846 8290
OCDD	2000	2230	pg/L	112	SW846 8290
OCDF	2000	2390	pg/L	119	SW846 8290

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-1,2,3,7,8-TCDD	96	(40 - 135)
13C-1,2,3,7,8-PeCDD	97	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	107	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	98	(40 - 135)
13C-OCDD	99	(40 - 135)
13C-2,3,7,8-TCDF	106	(40 - 135)
13C-1,2,3,7,8-PeCDF	107	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	104	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	102	(40 - 135)

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters



MAIL REPORT AND ONE  
COPY OF INVOICE TO:

Attn: Shawn Simmons  
Northern California Edison  
7301 Fenwick Lane, 2<sup>nd</sup> Floor  
Westminster, CA 92683

MAIL ORIGINAL AND ONE  
COPY OF INVOICE TO:

Southern California Edison  
Accounts Payable Division  
P.O. Box 700  
Rosemead, CA 91770

**SAMPLE ANALYSIS MEMORANDUM TO:**

Severn Trent Laboratories (STL)  
1721 South Grand Avenue  
Santa Ana, CA 92705

Southern Calif. Edison P.O. Number:  
Please return and direct inquiries to:  
In all correspondence refer to project:

V2033901  
S. Simmons  
04121


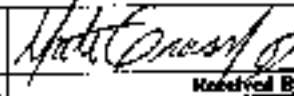
SCE Accounting: 1220-6358-097,097  
Tel: (714) 895-0525 Fax: (714) 895-0515  
Email: shawn.simmons@sce.com

Sample(s) are submitted for treatment/disposition as described below.

Sample ID	Date Collected	Time Collected	Description/Analytes
1&2 Intake Composite	8/09 to 8/10		EPA 8270C, see attached list for required epds
1&2 Outfall Composite	8/09 to 8/10		EPA 8270C, see attached list for required epds.
3&4 Intake Composite	8/09 to 8/10		EPA 8270C, see attached list for required epds.
3&4 Outfall Composite	8/09 to 8/10		EPA 8270C, see attached list for required epds.
1&2 Intake Composite	8/09 to 8/10		TCDD Full-Screen by EPA 8290
1&2 Outfall Composite	8/09 to 8/10		TCDD Full-Screen by EPA 8290
3&4 Intake Composite	8/09 to 8/10		TCDD Full-Screen by EPA 8290
3&4 Outfall Composite	8/09 to 8/10		TCDD Full-Screen by EPA 8290

**Special Instructions:**

**Chain of Custody:**

	Date: 8/11/04		Date: 8-11-04
Relinquished By	Time: 5:11 PM	Received By	Time: 14:30
	Date:		Date:
Relinquished By	Time:	Received By	Time:

Date: 08/11/17

Quota #: 53770 ..        ..        ..

Project: \_\_\_\_\_

Date/Time Received: 08/11/20 @ 1450

☐ CPS ☐ Other \_\_\_\_\_

Initial / Date

Amold W.

~~No~~ Seal #

NA

☒ Yes ☐ No

22-0144

*Handwritten signature*

内訳: 5

10/17/20

751A

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A-7

☒ **ENR**

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volumes

☐ No

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9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 8

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Don't forget!

IS LOT #

action

1-99

DATE

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\* VOA with headspace/bubbles  
 H: HCL, S: H2SO4, N: HNO3, V: VOA, SL: Sleeve, E: Encore, PB: Poly Bottle, CGB: Clear Glass Bottle, AGI: Amber Glass Inc., T: Terracote  
 AGB: Amber Glass Bottle, n51: HNO3-Lab filtered, n1: HNO3-Field filtered, amr: Zinc Acetate/Sodium Hydroxide, Na2S2O3: sodium thiosulfate

# Condition Upon Receipt Anomaly Form

VINIA ADTE WIS

- COOLERS
  - Not Received (received COC only)
  - Leaking
  - Other:

- TEMPERATURE (SPEC'S  $4 \pm 2^{\circ}\text{C}$ )
  - Cooler Temp(s)
  - Temperature Block(s)

- CONTAINERS
  - Leaking
  - Broken
  - Extra
  - Without Labels
  - Other:

- SAMPLES
  - Samples NOT RECEIVED but listed on COC
  - Samples received but NOT LISTED on COC
  - Logged based on Label Information
  - Logged based on info from other samples on COC
  - Logged according to Work Plan
  - Logged on HOLD UNTIL FURTHER NOTICE

- CUSTODY SEALS (COOLERS)
  - None
  - Not Intact
  - Other

- CONTAINER(S)
  - None
  - Not Intact
  - Other

- CHAIN OF CUSTODY (COC)
  - Not relinquished by Client; No date/time relinquished
  - Incomplete information provided
  - Other - COC not received - notify PM

- LABELS
  - Not the same ID/info as in COC
  - Incomplete information
  - Markings/info illegible
  - Torn

- Will be used on COC - Client to send samples with new COC
- Mislabeled as to test, preservatives, etc.
- Holding time expired - list sample ID and test
- Improper container used
- Not preserved/Improper preservative used
- Improper pH \_\_\_\_\_ Lab to preserve sample and document
- Insufficient quantities for analysis
- Other

Comments:

- Corrective Action Implemented:
- Client Informed: verbally on \_\_\_\_\_
- Samples on hold until: \_\_\_\_\_

By: \_\_\_\_\_ In writing on \_\_\_\_\_  
 Sample(s) processed "as is."

By:

Logged By/Date:

Log Review/Date:

PM Review/Date:

mt 8/12/04



# CRG

## Laboratories, Inc.

### ENVIRONMENTAL MICROBIOLOGY SERVICES

355 Van Ness Ave. Suite 115, Torrance, CA 90501 • (310) 320-3211 • Fax (310) 320-1276 • [info@crglabs.com](mailto:info@crglabs.com)

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August 16, 2004

TO: Shawn Simmons  
Power Production Chemical  
Southern California Edison  
7301 Fenwick Lane, 2<sup>nd</sup> Floor  
Westminster, CA 92683

Re: August 10, 2004 Samples  
CRAG-EMS Project 112, MD439a

CRG Laboratories, Inc. is pleased to provide you with the enclosed analytical data report for August 10, 2004 water samples.

Thirty six samples were received and analyzed for the following constituents:

- Total coliform bacteria by Multiple Tube Fermentation, MPN method (SM 9221B)
- Fecal coliform bacteria by Multiple Tube Fermentation, MPN method (SM 9221E)

Please let me know if you have any questions and thank you for using CRG-Environmental Microbiology Services.

Sincerely,

Moy Yahya  
Laboratory Manager

Attachment: Microbiology Results

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**Analytical Report**

Southern California Edison  
Material Testing Laboratory  
7351 Fenwick Lane  
Westminster, CA 92683

Date Received: 08/11/04  
Work Order No: 04-08-0549

Project: 04121

Page 8 of 10

| Client Sample Number | Lab Sample Number | Date Collected | Matrix  |
|----------------------|-------------------|----------------|---------|
| 3&4 Outfall          | 04-08-0549-36     | 08/10/04       | Aqueous |

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/17/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/18/04      | EPA 420.1 |

|                      |               |          |         |
|----------------------|---------------|----------|---------|
| 1&2 Intake Composite | 04-08-0549-37 | 08/10/04 | Aqueous |
|----------------------|---------------|----------|---------|

| Parameter                 | Result | RL   | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|---------------------------|--------|------|----|------|-------|---------------|---------------|-----------|
| Fluoride                  | 0.28   | 0.10 | 1  |      | mg/L  | N/A           | 08/18/04      | EPA 340.2 |
| Ammonia                   | ND     | 0.10 | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 350.2 |
| Total Kjeldahl Nitrogen   | ND     | 0.50 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 351.3 |
| Phosphorus, Total         | 1.1    | 0.2  | 2  | D    | mg/L  | 08/20/04      | 08/21/04      | EPA 365.3 |
| Biochemical Oxygen Demand | ND     | 1.0  | 1  |      | mg/L  | 08/11/04      | 08/18/04      | EPA 405.1 |
| Chemical Oxygen Demand    | 58     | 5    | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 410.4 |
| Carbon, Total Organic     | 6.8    | 5.0  | 10 | D    | mg/L  | N/A           | 08/11/04      | EPA 415.1 |
| Surfactants               | 0.14   | 0.10 | 1  |      | mg/L  | N/A           | 08/11/04      | EPA 425.1 |

|                       |               |          |         |
|-----------------------|---------------|----------|---------|
| 1&2 Outfall Composite | 04-08-0549-38 | 08/10/04 | Aqueous |
|-----------------------|---------------|----------|---------|

| Parameter                 | Result | RL   | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|---------------------------|--------|------|----|------|-------|---------------|---------------|-----------|
| Fluoride                  | 0.30   | 0.10 | 1  |      | mg/L  | N/A           | 08/18/04      | EPA 340.2 |
| Ammonia                   | ND     | 0.10 | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 350.2 |
| Total Kjeldahl Nitrogen   | 0.66   | 0.50 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 351.3 |
| Phosphorus, Total         | 0.30   | 0.10 | 1  |      | mg/L  | 08/20/04      | 08/21/04      | EPA 365.3 |
| Biochemical Oxygen Demand | ND     | 1.0  | 1  |      | mg/L  | 08/11/04      | 08/18/04      | EPA 405.1 |
| Chemical Oxygen Demand    | 58     | 5    | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 410.4 |
| Carbon, Total Organic     | 1.1    | 5    | 10 | D    | mg/L  | N/A           | 08/11/04      | EPA 415.1 |
| Surfactants               | 0.15   | 0.10 | 1  |      | mg/L  | N/A           | 08/11/04      | EPA 425.1 |

RL: Reporting Limit DF: Dilution Factor Qual: Qualifier

**Analytical Report**

Southern California Edison  
Material Testing Laboratory  
7351 Fenwick Lane  
Westminster, CA 92683

Date Received: 08/11/04  
Work Order No: 04-08-0549

Project: 04121

Page 9 of 10

| Client Sample Number | Lab Sample Number | Date Collected | Matrix  |
|----------------------|-------------------|----------------|---------|
| 3&4 Intake Composite | 04-08-0549-39     | 08/10/04       | Aqueous |

| Parameter                 | Result | EL   | DE | Qual | Units | Date Prepared | Date Analyzed | Method    |
|---------------------------|--------|------|----|------|-------|---------------|---------------|-----------|
| Fluoride                  | 0.32   | 0.10 | -  |      | mg/L  | N/A           | 08/19/04      | EPA 343.2 |
| Ammonia                   | ND     | 0.10 | -  |      | mg/L  | N/A           | 08/19/04      | EPA 350.2 |
| Total Kjeldahl Nitrogen   | 0.56   | 0.50 | -  |      | mg/L  | N/A           | 08/13/04      | EPA 351.3 |
| Phosphorus, Total         | ND     | 0.10 | 1  |      | mg/L  | 08/23/04      | 08/21/04      | EPA 365.3 |
| Biochemical Oxygen Demand | ND     | 1.0  | 1  |      | mg/L  | 08/11/04      | 08/16/04      | EPA 405.1 |
| Chemical Oxygen Demand    | 56     | 5    | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 410.4 |
| Carbon, Total Organic     | 9.5    | 5.0  | 10 | 0    | mg/L  | N/A           | 08/11/04      | EPA 415.1 |
| Surfactants               | 0.15   | 0.10 | 1  |      | mg/L  | N/A           | 08/11/04      | EPA 425.1 |

|                       |               |          |         |
|-----------------------|---------------|----------|---------|
| 3&4 Outfall Composite | 04-08-0549-40 | 08/10/04 | Aqueous |
|-----------------------|---------------|----------|---------|

| Parameter                 | Result | EL   | DE | Qual | Units | Date Prepared | Date Analyzed | Method    |
|---------------------------|--------|------|----|------|-------|---------------|---------------|-----------|
| Fluoride                  | 0.51   | 0.10 | 1  |      | mg/L  | N/A           | 08/19/04      | EPA 340.2 |
| Ammonia                   | ND     | 0.10 | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 350.2 |
| Total Kjeldahl Nitrogen   | ND     | 0.50 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 351.3 |
| Phosphorus, Total         | ND     | 0.10 | 1  |      | mg/L  | 08/23/04      | 09/21/04      | EPA 365.3 |
| Biochemical Oxygen Demand | ND     | 1.0  | -  |      | mg/L  | 08/11/04      | 09/16/04      | EPA 405.1 |
| Chemical Oxygen Demand    | 55     | 5    | -  |      | mg/L  | N/A           | 08/13/04      | EPA 410.4 |
| Carbon, Total Organic     | 6.2    | 5.0  | 10 | 0    | mg/L  | N/A           | 08/11/04      | EPA 415.1 |
| Surfactants               | 0.14   | 0.10 | 1  |      | mg/L  | N/A           | 08/11/04      | EPA 425.1 |

EL - Reporting Limit, DE - Dilution Factor, Qual - Qualities

**Analytical Report**

Southern California Edison  
 Material Testing Laboratory  
 7351 Funwick Lane  
 Westminster, CA 92683

Date Received: 05/25/01  
 Work Order No: 04-08-0549

Project: 04121

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| Client Sample Number | Lab Sample Number | Date Collected | Matrix  |
|----------------------|-------------------|----------------|---------|
| Method Blank         |                   | N/A            | Aqueous |

| Parameter                 | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|---------------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total            | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 335.7 |
| Cyanide, Total            | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/17/04      | EPA 335.7 |
| Fluoride                  | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/19/04      | EPA 310.2 |
| Ammonia                   | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/17/04      | EPA 350.2 |
| Total Kjeldahl Nitrogen   | ND     | 0.50  | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 351.3 |
| Phosphorus, Total         | ND     | 0.10  | 1  |      | mg/L  | 08/20/04      | 08/21/04      | EPA 385.3 |
| Biochemical Oxygen Demand | NU     | 1.0   | 1  |      | mg/L  | 08/17/04      | 08/18/04      | EPA 405.1 |
| Chemical Oxygen Demand    | NU     | 5.0   | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 410.4 |
| Carbon, Total Organic     | NU     | 0.50  | 1  |      | mg/L  | N/A           | 08/11/04      | EPA 415.1 |
| Phenolics, Total          | ND     | 0.10  | 1  |      | mg/l  | N/A           | 08/12/04      | EPA 420.1 |
| Phenolics, Total          | ND     | 0.10  | 1  |      | mg/l  | N/A           | 08/12/04      | EPA 420.1 |
| Phenolics, Total          | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 420.1 |
| Surfactants               | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/11/04      | EPA 425.1 |

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers



# Analytical Report

Southern California Edison  
Material Testing Laboratory  
7351 Ferwick Lane  
Westminster, ca 92683

Date Received: 08/11/04  
Work Order No: 04-08-0549  
Preparation: N/A  
Method: SM 4500-Br B  
**Bromide**

Project: 04121

| Client Sample Number | Lab Sample Number | Matrix  | Date Collected | Date Extracted | Date Analyzed | QC Batch ID |
|----------------------|-------------------|---------|----------------|----------------|---------------|-------------|
| 1&2 Intake Composite | 04-08-0549-37     | Aqueous | 08/09/04       | N/A            | 08/19/04      | 40819BRL1   |

| Parameter | Result | RL | DF  | Qual | Units |
|-----------|--------|----|-----|------|-------|
| Bromide   | 48     | 10 | 100 | D    | mg/L  |

|                       |               |         |          |     |          |           |
|-----------------------|---------------|---------|----------|-----|----------|-----------|
| 1&2 Outfall Composite | 04-08-0549-38 | Aqueous | 08/09/04 | N/A | 08/19/04 | 40819BRL1 |
|-----------------------|---------------|---------|----------|-----|----------|-----------|

| Parameter | Result | RL | DF  | Qual | Units |
|-----------|--------|----|-----|------|-------|
| Bromide   | 53     | 10 | 100 | D    | mg/L  |

|                      |               |         |          |     |          |           |
|----------------------|---------------|---------|----------|-----|----------|-----------|
| 3&4 Intake Composite | 04-08-0549-39 | Aqueous | 08/09/04 | N/A | 08/19/04 | 40819BRL1 |
|----------------------|---------------|---------|----------|-----|----------|-----------|

| Parameter | Result | RL | DF  | Qual | Units |
|-----------|--------|----|-----|------|-------|
| Bromide   | 50     | 10 | 100 | D    | mg/L  |

|                       |               |         |          |     |          |           |
|-----------------------|---------------|---------|----------|-----|----------|-----------|
| 3&4 Outfall Composite | 04-08-0549-40 | Aqueous | 08/09/04 | N/A | 08/19/04 | 40819BRL1 |
|-----------------------|---------------|---------|----------|-----|----------|-----------|

| Parameter | Result | RL | DF  | Qual | Units |
|-----------|--------|----|-----|------|-------|
| Bromide   | 50     | 10 | 100 | D    | mg/L  |

|              |               |         |     |     |          |           |
|--------------|---------------|---------|-----|-----|----------|-----------|
| Method Blank | 04-08-0549-MB | Aqueous | N/A | N/A | 08/19/04 | 40819BRL1 |
|--------------|---------------|---------|-----|-----|----------|-----------|

| Parameter | Result | RL  | DF | Qual | Units |
|-----------|--------|-----|----|------|-------|
| Bromide   | ND     | 0.1 | 1  |      | mg/L  |

RL - Reporting Limit      DF - Dilution Factor      Qual - Qualifiers



QA/QC Batch Number: 40819BRL1  
 Matrix: Aqueous

Date Prepared: N/A  
 Date Analyzed: 08/19/04  
 Preparation Method: N/A  
 Analytical Method: SM 4500-Br B  
**Bromide**

Spiked Sample ID: 04-08-0548-40  
 UNITS: mg/L

| Analyte | Sample Result | Spike Conc. | MS    | %MS | MSD   | %MSD | RPD  | Spike Rec. Acc. Limits | RPD Acc. Limits |
|---------|---------------|-------------|-------|-----|-------|------|------|------------------------|-----------------|
| Bromide | 0.5           | 0.400       | 0.926 | 107 | 0.899 | 100  | 3.2% | 70 - 130               | 25              |


LCS Sample Number: 40819BRL1  
 UNITS: mg/L

| Analyte | Spike Conc. | LCS   | %LCS | LCSD | %LCSD | RPD | Spike Rec. Acc. Limits | RPD Acc. Limits |
|---------|-------------|-------|------|------|-------|-----|------------------------|-----------------|
| Bromide | 0.400       | 0.403 | 101  | N/A  | N/A   | N/A | 80 - 120               | 20              |

RL - Reporting Limit

DF - Dilution Factor

QAC - Qualifiers



7440 Lincoln Way, Garden Grove, CA 92641-1427

TEL: (714) 895-5194

FAX: (714) 894-7501



**Environmental**

**Laboratories, Inc.**

**Quality Control - Spike/Spike Duplicate**

Southern California Edison  
Material Testing Laboratory  
7351 Fenwick Lane  
Westminster, CA 92683  
Project: 04121

Date Received: 08/11/04  
Work Order No: 04-08-0549

Matrix: Aqueous

| Parameter             | Method    | Quality Control Sample ID | Date Analyzed | Date Extracted | MS% REC | MSD% REC | %REC CL | RPD | RPC CL | Qualifiers |
|-----------------------|-----------|---------------------------|---------------|----------------|---------|----------|---------|-----|--------|------------|
| Carbon, Total Organic | EPA 415.1 | 182 Intake Composite      | 08/11/04      | N/A            | 104     | 101      | 70-130  | 3   | 0-25   |            |
| Phosphorus, Total     | EPA 365.3 | 184 Intake Composite      | 08/21/04      | 6/20/2004      | 111     | 111      | 70-130  | 0   | 0-25   |            |
| Fluoride              | EPA 340.2 | 14-08-0676 13             | 08/19/04      | N/A            | 96      | 104      | 70-130  | 5   | 0-25   |            |

RPC - Relative Percent Difference, CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92641-1427 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Southern California Edison  
 Material Testing Laboratory  
 7351 Fenwick Lane  
 Westminster, CA 92683  
 Project: 04121

Date Received: 08/11/04  
 Work Order No: 04-08-0549

Matrix: Aqueous

| Parameter                 | Method    | QC Sample ID          | Date Analyzed | Sample Conc. | RLP Conc. | RPD | RPD CL | Qualifiers |
|---------------------------|-----------|-----------------------|---------------|--------------|-----------|-----|--------|------------|
| Biochemical Oxygen Demand | EPA 805.1 | 384 Duffall Composite | 08/18/04      | ND           | ND        | NA  | 0-25   |            |
| Chemical Oxygen Demand    | EPA 413.4 | 04-ES-0555-1          | 08/12/04      | 340          | 340       | -   | 0-25   |            |
| Ammonia                   | EPA 350.2 | 384 Duffall Composite | 08/12/04      | ND           | ND        | NA  | 0-25   |            |
| Total Kjeldahl Nitrogen   | EPA 351.3 | 384 Duffall Composite | 08/12/04      | ND           | ND        | NA  | 0-25   |            |

RPD - Relative Percent Difference, CL - Control Limit

Southern California Edison  
Material Testing Laboratory  
7351 Fenwick Lane  
Westminster, CA 92683  
Project: 04121

Date Received: N/A  
Work Order No: 04-08-0549  
Preparation: EPA 3520B  
Method: EPA 8081A/8082

| Quality Control Sample ID | Matrix  | Instrument | Date Prepared | Date Analyzed | LCS/LCSO Batch Number |
|---------------------------|---------|------------|---------------|---------------|-----------------------|
| 095-01-015-1,278          | Aqueous | GC 97      | 08/11/04      | 08/13/04      | 040811L10             |

| Parameter    | LCS %REC | LCSO %REC | %REC CL | RPD | RPD CL | Quality |
|--------------|----------|-----------|---------|-----|--------|---------|
| Gamma-BHC    | 77       | 72        | 50-135  | 6   | 0-25   |         |
| Heptachlor   | 72       | 68        | 50-135  | 4   | 0-25   |         |
| Endosulfan I | 76       | 72        | 50-135  | 5   | 0-25   |         |
| Dieldrin     | 84       | 61        | 50-135  | 5   | 0-25   |         |
| Endrin       | 72       | 69        | 50-135  | 4   | 0-25   |         |
| 4,4-DDE      | 73       | 69        | 50-135  | 5   | 0-25   |         |
| Amdur 26C    | 57       | 60        | 50-135  | 6   | 0-25   |         |

RPD - Relative Percent Difference, CL - Control Limit

**Quality Control - LCS/LCS Duplicate**

Southern California Edison  
 Material Testing Laboratory  
 7351 Fenwick Lane  
 Westminster, CA 92683  
 Project: 04121

Date Received:  
 Work Order No:

N/A  
 04-08-0549

Matrix: Aqueous

| Parameter        | Method    | Quality Control<br>Sample ID | Date<br>Extracted | Date<br>Analyzed | LCS %<br>REC | LCS D %<br>REC | MR-C<br>CL | RPD | REC<br>CI | Qual |
|------------------|-----------|------------------------------|-------------------|------------------|--------------|----------------|------------|-----|-----------|------|
| Cyanide, Total   | EPA 335.2 | 089-05-081-1,477             | N/A               | 08/13/04         | 98           | 98             | 80-120     | 1   | 0-20      |      |
| Cyanide, Total   | EPA 335.2 | 089-05-061-1,478             | N/A               | 08/17/04         | 98           | 100            | 80-120     | 2   | 0-20      |      |
| Phenolics, Total | EPA 420.1 | 089-05-085-1,301             | N/A               | 08/12/04         | 96           | 98             | 80-120     | 0   | 0-20      |      |
| Phenolics, Total | EPA 420.1 | 089-05-085-1,302             | N/A               | 08/12/04         | 96           | 98             | 80-120     | 0   | 0-20      |      |
| Phenolics, Total | EPA 420.1 | 089-05-085-1,303             | N/A               | 08/12/04         | 96           | 98             | 80-120     | 0   | 0-20      |      |
| Surfactants      | EPA 425.1 | 089-05-053-1,357             | N/A               | 08/11/04         | 99           | 95             | 80-120     | 3   | 0-20      |      |

RPD - Relative Percent Difference, CL - Control Limit

**Calscience****Environmental****Laboratories, Inc.****Quality Control - Laboratory Control Sample**

Southern California Edison  
Material Testing Laboratory  
7351 Fenwick Lane  
Westminster, CA 92683  
Project: 04121

Date Received:  
Work Order No:

N/A  
04-08-0549

Matrix: Aqueous

| Parameter             | Method    | Laboratory Control Sample ID | Date Analyzed | Date Received | Cont. Added | Cont. Measured | LOS S.Rag | %Rec. S. | Qualifiers |
|-----------------------|-----------|------------------------------|---------------|---------------|-------------|----------------|-----------|----------|------------|
| Carbon, Total Organic | EPA 415.1 | 099-05-097-1.709             | 08/11/04      | N/A           | 10          | 10             | 107       | 90-120   |            |
| Phosphorus, Total     | EPA 385.3 | 099-05-098-1.525             | 08/21/04      | 9/25/2004     | 0.40        | 0.43           | 108       | 80-120   |            |
| Fluoride              | EPA 340.2 | 097-01-022.57                | 09/19/04      | N/A           | 0.50        | 0.57           | 113       | 80-120   |            |

RPD - Relative Percent Difference (C<sub>u</sub> - Control Limit)

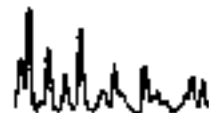
7440 Lincoln Way, Garden Grove, CA 92641-1427 • TEL: (714) 895-5494 • FAX: (714) 891-7501

## Glossary of Terms and Qualifiers

Work Order Number: 04-08-0549

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| <u>Qualifier</u> | <u>Definition</u>   |
|------------------|---|
| *                | See applicable analysis comment.  |
| 1                | Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.  |
| 2                | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.                              |
| 3                | Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.                |
| 4                | The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.   |
| 5                | The PDS/PDSO associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required. |
| A                | Result is the average of all dilutions, as defined by the method.   |
| B                | Analyte was present in the associated method blank.   |
| C                | Analyte presence was not confirmed on primary column.   |
| D                | The analyte concentration was reported from analysis of the diluted sample.   |
| E                | Concentration exceeds the calibration range.  |
| H                | Sample received and/or analyzed past the recommended holding time.  |
| J                | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.   |
| N                | Nontarget Analyte.  |
| ND               | Parameter not detected at the indicated reporting limit.  |
| Q                | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.   |
| U                | Undetected at the laboratory method detection limit.  |
| X                | % Recovery and/or RPD out-of-range.   |
| Z                | Analyte presence was not confirmed by second column or GC/MS analysis.  |





RESULTS TO:  
Facsimile: (714) 895-0515  
Power Production Chemical  
Southern California Edison  
7381 Fairview Lane, 2nd floor  
Westminster, CA 92683

INVOICE TO:  
Southern California Edison  
Accounts Payable Division  
P.O. Box 700  
Broomfield, CA 97110

0549

**SAMPLE ANALYSIS MEMORANDUM TO:**

CalScience Environmental Laboratories  
7440 Lincoln Way  
Garden Grove, CA 92841

Southern Calif. Edison P.O. Number: Q1033917 Release Number: A002  
Please return and direct inquiries to: Shawn Simmons Tel: (714) 895-0525 Fax: (714) 895-0515  
In all correspondence refer to project: 04121 Email: shawn.simmons@sc Edison.com  
Sample(s) are submitted for treatment/disposition as described below.

| Sample ID   | Date Collected | Time Collected | Description/Analytes       |
|-------------|----------------|----------------|----------------------------|
| 1&2 Intake  | 8/09/04        | 15:55          | Total Phenolics, EPA 420.1 |
| 1&2 Outfall | 8/09/04        | 16:20          | Total Phenolics, EPA 420.1 |
| 3&4 Intake  | 8/09/04        | 15:20          | Total Phenolics, EPA 420.1 |
| 3&4 Outfall | 8/09/04        | 14:45          | Total Phenolics, EPA 420.1 |
| 1&2 Intake  | 8/09/04        | 18:15          | Total Phenolics, EPA 420.1 |
| 1&2 Outfall | 8/09/04        | 18:38          | Total Phenolics, EPA 420.1 |
| 3&4 Intake  | 8/09/04        | 17:55          | Total Phenolics, EPA 420.1 |
| 3&4 Outfall | 8/09/04        | 17:30          | Total Phenolics, EPA 420.1 |
| 1&2 Intake  | 8/09/04        | 20:50          | Total Phenolics, EPA 420.1 |
| 1&2 Outfall | 8/09/04        | 21:00          | Total Phenolics, EPA 420.1 |
| 3&4 Intake  | 8/09/04        | 20:20          | Total Phenolics, EPA 420.1 |
| 3&4 Outfall | 8/09/04        | 20:35          | Total Phenolics, EPA 420.1 |
| 1&2 Intake  | 8/09/04        | 23:40          | Total Phenolics, EPA 420.1 |
| 1&2 Outfall | 8/10/04        | 00:00          | Total Phenolics, EPA 420.1 |
| 3&4 Intake  | 8/09/04        | 23:15          | Total Phenolics, EPA 420.1 |
| 3&4 Outfall | 8/09/04        | 23:25          | Total Phenolics, EPA 420.1 |

**Special Instructions:**

Matrix is seawater.

**Chain of Custody:**

|   |                        |  |                      |
|---|------------------------|--|----------------------|
|  | Date: <u>8/11/04</u>   |  | Date:                |
| Released By   | Time: <u>9:20 A.M.</u> | Received By  | Time:                |
|   | Date:                  |  | Date: <u>8/11/04</u> |
| Retransmitted By  | Time:                  | Received By  | Time: <u>9:20</u>    |



RESULTS TO:  
Facility: (714) 895-0515  
Power Production Chemical  
Southern California Edison  
1381 Fenwick Lane, 2nd floor  
Westminster, CA 92683

INVOICE TO:  
Southern California Edison  
Accounts Payable Division  
P.O. Box 708  
Rancho, CA 91770

### SAMPLE ANALYSIS MEMORANDUM TO:

CalScience Environmental Laboratories  
7440 Lincoln Way  
Garden Grove, CA 92841

Southern Calif Edison P.O. Number: Q1033917 Release Number: A102  
Please return and direct inquiries to: Shawn Simmons Tel: (714) 895-4525 Fax: (714) 895-0515  
In all correspondence refer to project: 04121 Email: shawn.simmons@scs.com  
Sample(s) are submitted for treatment/disposition as described below.

| Sample ID   | Date Collected | Time Collected | Description/Analytes       |
|-------------|----------------|----------------|----------------------------|
| 1&2 Intake  | 8/10/04        | 02:55          | Total Phenolics, EPA 420.1 |
| 1&2 Outfall | 8/10/04        | 03:15          | Total Phenolics, EPA 420.1 |
| 3&4 Intake  | 8/10/04        | 02:15          | Total Phenolics, EPA 420.1 |
| 3&4 Outfall | 8/10/04        | 02:35          | Total Phenolics, EPA 420.1 |
| 1&2 Intake  | 8/10/04        | 05:55          | Total Phenolics, EPA 420.1 |
| 1&2 Outfall | 8/10/04        | 06:15          | Total Phenolics, EPA 420.1 |
| 3&4 Intake  | 8/10/04        | 05:15          | Total Phenolics, EPA 420.1 |
| 3&4 Outfall | 8/10/04        | 05:35          | Total Phenolics, EPA 420.1 |
| 1&2 Intake  | 8/10/04        | 09:15          | Total Phenolics, EPA 420.1 |
| 1&2 Outfall | 8/10/04        | 08:55          | Total Phenolics, EPA 420.1 |
| 3&4 Intake  | 8/10/04        | 08:15          | Total Phenolics, EPA 420.1 |
| 3&4 Outfall | 8/10/04        | 08:35          | Total Phenolics, EPA 420.1 |
| 1&2 Intake  | 8/10/04        | 11:55          | Total Phenolics, EPA 420.1 |
| 1&2 Outfall | 8/10/04        | 12:15          | Total Phenolics, EPA 420.1 |
| 3&4 Intake  | 8/10/04        | 11:15          | Total Phenolics, EPA 420.1 |
| 3&4 Outfall | 8/10/04        | 11:35          | Total Phenolics, EPA 420.1 |
| 1&2 Intake  | 8/10/04        | 14:55          | Total Phenolics, EPA 420.1 |
| 1&2 Outfall | 8/10/04        | 15:15          | Total Phenolics, EPA 420.1 |
| 3&4 Intake  | 8/10/04        | 14:15          | Total Phenolics, EPA 420.1 |
| 3&4 Outfall | 8/10/04        | 14:35          | Total Phenolics, EPA 420.1 |

#### Chain of Custody:

|              |                      |              |                      |
|--------------|----------------------|--------------|----------------------|
|              | Date: <u>8/10/04</u> |              | Date:                |
|              | Time: <u>9:20 AM</u> |              | Time:                |
| Released By: | Date:                | Received By: | Date: <u>8/11/04</u> |
| Retained By: | Time:                | Received By: | Time: <u>1:20</u>    |

# CRG Laboratories, Inc.

355 Van Ness Ave., Suite 115, San Francisco, CA 94102-1205 (310) 320-3211 FAX (310) 320-1276 myahya@crglabs.com

## MICROBIOLOGY RESULTS

CRG ID#: 13116 Replicate #B1 Project ID: MCH102 Batch ID: 0911 Matrix: Runoffs

Sample: QAD/C Client Name: NRI, El Segundo Power  
Description: Procedure Blank Station Simulants

Date Sampled: Date Received: 10-AUG-14  
Time Collected: Time Analyzed: 0123

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTE-20 | SM 9221E | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTE-20 | SM 9221B | < 20   | MPN/100 mL | 20  |

# CRG Laboratories, Inc.

365 Van Ness Ave., Suite 115, San Francisco, CA 94101 1206 (310) 320 3711 FAX (310) 520 1276 myc@crglabs.com

## MICROBIOLOGY RESULTS

CRG ID: 13417 Replicate #001 Project ID: M0414 Batch ID: 0010 Matrix: Coliforms  
Sample: QAQC Client Name: KRC, Halseywood Power  
Description: Positive Control Food Shawn Simons

Date Sampled: Date Received: 10-Aug-04  
Time Collected: Time Analyzed: 0130

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Total Coliform / MTF 20 | SM 9221E | PASS   | MPN/100 ml | 20  |
| Total Coliform / MTF 20 | SM 9221B | PASS   | MPN/100 mL | 20  |

# CRG Laboratories, Inc.

365 Van Ness Ave., Suite 715, Berkeley, CA 94607-1206 (310) 320-3211 FAX (310) 320-1776 myshys@crglabs.com

## MICROBIOLOGY RESULTS

CRG ID#: 13380 Replicate #1 Project ID: M04141 Batch ID: 0609 Matrix: Wastewater  
 Sample Description: 13.2 Inflow Client Name: NRG Independent Power  
 Station Sources

Date Sampled: 09-Aug-04 Date Received: 09-Aug-04  
 Time Collected: 15:11 Time Analyzed: 2033

| CONSTITUENT            | METHOD   | RESULT | UNIT       | MDL |
|------------------------|----------|--------|------------|-----|
| Fecal Coliform /MT: 20 | SM 9221E | < 20   | MPN/100 ml | 20  |
| Total Coliform /MTF 20 | SM 9221B | < 20   | MPN/100 ml | 20  |

# CRG Laboratories, Inc.

355 Van Ness Ave., Suite 115, Torrance, CA 90501 1206 (310) 320-3211 FAX (310) 320-1276 [info@crglabs.com](mailto:info@crglabs.com)

## MICROBIOLOGY RESULTS

CRG ID#: 13381 Replicate: A#1 Project ID: M0419a Batch ID: 0109 Matrix: Wastewater  
Sample: 1&2 Outfit Client Name: NRC-Biggest Power  
Description: Show Summary

Date Sampled: 09-Aug-04 Date Received: 09-Aug-04  
Time Collected: 1620 Time Analyzed: 2030

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTF 20 | SM 9221C | < 20   | MPN/100 ml | 20  |
| Total Coliform / MTF 20 | SM 9221B | < 20   | MPN/100 mL | 20  |

# CRG Laboratories, Inc.

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## MICROBIOLOGY RESULTS

CRG ID#: 13382 Replicate # R1 Project ID: M04192 Batch ID: 7629 Matrix: Wastewater  
Sample: 5&4 Totals Client Name: NRG El Segundo Power  
Description: Shewy Station

Date Sampled: 09 Aug-04 Date Received: 09 Aug-04  
Time Collected: 1530 Time Analyzed: 2030

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform (MTF 20) | SM 9221B | < 20   | MPN/100 mL | 20  |
| Total Coliform (MTF 20) | SM 9221B | < 20   | MPN/100 mL | 20  |

# CRG Laboratories, Inc.

355 Van Ness Ave., Suite 115, Torrance, CA 90501-1206 (310) 320-1521 FAX (310) 320-1206 myc@ya.crglabs.com

## MICROBIOLOGY RESULTS

CRG ID#: 13383 Replicate #11 Project ID: M04194 Batch ID: 0837 Media: Wastewater  
Sample: SR4 Outfall Client Name: NRTI Electrical Power  
Description: Shown Sincron

Date Sampled: 09-Aug-04 Date Received: 09-Aug-04  
Time Collected: NA Time Analyzed: 2030

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MML |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MPN 20 | SM 9221E | < 20   | MPN/100 ml | 20  |
| Total Coliform / MPN 20 | SM 9221B | < 20   | MPN/100 ml | 20  |

# CRG Laboratories, Inc.

355 Van Ness Ave., Suite 115, Emance, CA 93501-1206 (310) 323-3711 FAX (310) 320-1276 mynlgy@crglabs.com

## MICROBIOLOGY RESULTS

CRG ID#: 13384 Replicate ARI Project ID: MU419a Batch ID: 0509 Matrix: Wastewater

Sample: 282 Inflow

Client Name: NRG El Segundo Piers

Description: 1

Shaw, Simons

Date Sampled: 09 Aug 04

Date Received: 09 Aug 04

Time Collected: 1818

Time Analyzed: 2030

| CONSTITUENT             | METHOD   | RESULT | UNIT       | NHL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTF 20 | SM 9221E | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTF 20 | SM 9221B | < 20   | MPN/100 mL | 20  |

# CRG Laboratories, Inc.

355 Van Ness Ave., Suite 115 Torrance, CA 90501 T206 (310) 329 3241 FAX (310) 320 1276 myahya@crglabs.com

## MICROBIOLOGY RESULTS

CRG ID: 13385 Replicate #3: Project ID: M0419a Batch ID: 0809 Media: Wastewater

Sample: I&S Outfall Client Name: NRC Flamingo Power  
Description: 2 Station Simmer

Date Sampled: 09 Aug 04 Date Received: 09 Aug 04  
Time Collected: 1855 Time Analyzed: 2000

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTF 20 | SM 9221E | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTF 20 | SM 9221B | < 20   | MPN/100 mL | 20  |

# CRG Laboratories, Inc.

355 Van Ness Ave., Suite 115, Emeryville, CA 94601-1206 (310) 320-3211 FAX (310) 320-1276 myklyw@crglabs.com

## MICROBIOLOGY RESULTS

CRG ID#: 13386 Replicate(s): Project ID: MHA-9a Batch ID: 0009 Method: Wastewater  
Sample: 1&4 Inlets Client Name: SRG Claydon Project  
Description: 2 Shown Simons

Date Sampled: 09-Aug-04 Date Received: 09-Aug-04  
Time Collected: 1755 Time Analyzed: 2030

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTF 20 | SM 9221E | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTF 20 | SM 9221B | < 20   | MPN/100 mL | 20  |

# CRG Laboratories, Inc.

355 Van Ness Ave., Suite 115, Emance, CA 95901-1206 (916) 220-2211 FAX (916) 220-1278 myahya@crglabs.com

## MICROBIOLOGY RESULTS

CRG ID#: 13387 Replicate #: Project ID: MCHW Batch ID: 6809 Matrix: Wastewater

Sample: 584 Campbell Client Name: NSG Starpinto Power  
Description: 2 Shasta Scraper

Date Sampled: 09 Aug-04 Date Received: 09 Aug-04  
Time Collected: 17:00 Time Analyzed: 20:00

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTF 20 | SM 9221E | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTF 20 | SM 9221E | < 20   | MPN/100 mL | 20  |

# CRG Laboratories, Inc.

365 Van Ness Ave. Suite 115, Torrance, CA 90501-1286 (310) 320-3211 FAX (310) 320-1276 [myshyz@crglabs.com](mailto:myshyz@crglabs.com)

## MICROBIOLOGY RESULTS

CRG ID#: 13388 Replicate #R1 Project ID: M04/02 Batch ID: 0894 Matrix: Wastewater  
Sample: LW2 Inlets Client Name: NRII - Segunda Phase  
Description: 1 Shawa Sciences

Date Sampled: 06-Aug-04 Date Received: 10-Aug-04  
Time Collected: 2050 Time Analyzed: 0130

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MIN. |
|-------------------------|----------|--------|------------|------|
| ecal Coliform / M11 20  | SM 5221E | < 20   | MPN/100 ml | 20   |
| Total Coliform / MTF 20 | SM 5221E | < 20   | MPN/100 mL | 20   |

# CRG Laboratories, Inc.

365 Van Ness Ave., Suite 115, Emeryville, CA 94601-1206 (310) 320-3211 FAX (310) 320-1278 [info@crglabs.com](mailto:info@crglabs.com)

## MICROBIOLOGY RESULTS

CRG ID#: 13349, Replicate BR1 Project ID: MEAT9, Batch ID: 0809 Matrix: Water/20

Sample 1&2 Control Client Name: NRG Elavon Co. Power  
Description: 5 Steven Simmons

Date Sampled: 09-Aug-04 Date Received: 10-Aug-04  
Time Collected: 0100 Time Analyzed: 0130

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MPN 20 | SM 9221E | < 20   | MPN/100 mL | 20  |
| Total Coliform / MPN 20 | SM 9221D | < 20   | MPN/100 mL | 20  |

# CRG Laboratories, Inc.

355 Van Ness Ave., Suite 115, Torrance, CA 90501-1238 (310) 320-3211 FAX (310) 320-1278 myahya@crglabs.com

## MICROBIOLOGY RESULTS

CRG ID#: 13399 Replicate #21 Project ID: M6419a Batch ID: 0809 Matrix: Wastewater

Sample: 1/4 Leaks Client Name: NRG Energy Power  
Description: 3 Showa Simons

Date Sampled: 09-Aug-04 Date Received: 10-Aug-04  
Time Collected: 3020 Time Analyzed: 0131

| CONSTITUENT             | METHOD   | RESULT | UNIT       | NL |
|-------------------------|----------|--------|------------|----|
| Fecal Coliform / MPN 20 | SM 9221B | < 20   | MPN/100 mL | 20 |
| Total Coliform / MPN 20 | SM 9221B | < 20   | MPN/100 mL | 20 |

# CRG Laboratories, Inc.

355 Van Ness Ave., Suite 115, San Francisco, CA 94104-1206 (310) 320-3211 FAX (310) 320-1276 mylab@crglabs.com

## MICROBIOLOGY RESULTS

CRG ID#: 1339 Replicate #1 Project ID: MARIUS Batch ID: 0909 Matrix: Wastewater

Sample J&R Outfall Client Name: NRCI El Segundo Power  
Description: 1 Shown Submittal

Date Sampled: 09-Aug-04 Date Received: 10-Aug-04  
Time Collected: 2013 Time Analyzed: 0130

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTF 20 | SM 9221E | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTF 20 | SM 9221B | < 20   | MPN/100 mL | 20  |

# CRG Laboratories, Inc.

355 Van Ness Ave. Suite 115, Torrance, CA 90501-1206 (310) 320-3211 FAX (310) 320-1276 [info@crglab.com](mailto:info@crglab.com)

## MICROBIOLOGY RESULTS

CRG ID#: 13392 Replicate #R1 Project ID: MC416 Batch ID: 0810 Matrix: Wastewater

Sample: 1&2 Inlets Client Name: NRG Diagnostic Power  
Description: 2 Shown Shown

Date Sampled: 09-Aug-04 Date Received: 10-Aug-04  
Time Collected: 0040 Time Analyzed: 0130

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTF-20 | SM 9221L | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTH-20 | SM 9221B | < 20   | MPN/100 mL | 20  |

# CRG Laboratories, Inc.

355 Van Ness Ave., Suite 110, Emeryville, CA 94607-1206 (510) 521-3211 FAX (510) 521-1276 [myahya@crglabs.com](mailto:myahya@crglabs.com)

## MICROBIOLOGY RESULTS

CRC# ID# : 13393    Replicate #R# :    Project ID: M04192    Batch ID: 0609    Matrix: Wastewater

Sample : I&D Outfall    Client Name: NSS - El Segundo Power  
Description: 3    Show Schema

Date Sampled: 08-Aug-04    Date Received: 10-Aug-04  
Time Collected: 0000    Time Analyzed: 0130

| CONSTITUENT          | METHOD   | RESULT | UNIT       | MDL |
|----------------------|----------|--------|------------|-----|
| Fecal Coliform / M11 | SM 9221E | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTE | SM 9221B | < 20   | MPN/100 mL | 20  |

# CRG Laboratories, Inc.

355 Van Ness Ave., Suite 115, Torrance, CA 90501 T200 (310) 320-3211 FAX (310) 320-1276 mylabys@crglabs.com

## MICROBIOLOGY RESULTS

CRG ID#: 13394 : Replicate AR: Project ID: M0419s Batch ID: 0009 Matrix: Wastewater

Sample: 3004 Intake Client Name: NRG Higuendo Power  
Description: 1 Shasta Scumco

Date Sampled: 08-Aug-04

Date Received: 10-Aug-04

Time Collected: 0135

Time Analyzed: 0130

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MPN 20 | SM 9221L | < 20   | MPN/100 mL | 20  |
| Total Coliform / MPN 20 | SM 9221B | < 20   | MPN/100 mL | 20  |

# CRG Laboratories, Inc.

355 Van Ness Ave., Suite 115, Torrance, CA 90501-1206 (310) 320-3211 FAX (310) 323-1278 myahya@crglabs.com

## MICROBIOLOGY RESULTS

CRG ID#: 13395; Replicate #R1 Project ID: MHA146 Batch ID: 0809 Matrix: Wastewater

Sample: Sediment Client Name: ARCO Legendre Point  
Description: 4 Sheen Simmons

Date Sampled: 09-Aug-04 Date Received: 10-Aug-04

Time Collected: 0525 Time Analyzed: 0130

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTF 20 | SM 9221E | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTF 20 | SM 9221B | < 20   | MPN/100 mL | 20  |

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## MICROBIOLOGY RESULTS

CRG ID#: 13396 Replicate: RK Project ID: MHA/16 Batch ID: 0909 Matrix: Wastewater

Sample: 1&2 Intake Client Name: NRC Fingardo Power  
Description: Show Summary

Date Sampled: 10-Aug-04 Date Received: 10-Aug-04  
Time Collected: 0755 Time Analyzed: 0830

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MPN 20 | SM 9221E | < 20   | MPN/100 mL | 20  |
| Total Coliform / MPN 20 | SM 9221B | 20     | MPN/100 mL | 20  |

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## MICROBIOLOGY RESULTS

CRG ID# : 13397 · Replicate AR: Project ID: M2419a Batch ID: 0910 Matrix: Wastewater

Sample : 1x2 Initial Client Name: NRC Flamingo Power  
Description : y Show Summary

Date Sampled: 10-Aug-04 Date Received: 10-Aug-04  
Time Collected: 01:1 Time Analyzed: 08:30

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTH-20 | SM 9221C | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTH-20 | SM 9221B | < 20   | MPN/100 mL | 20  |

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## MICROBIOLOGY RESULTS

CRG ID#: 13348 Replenis 881 Project ID: M041/A Batch ID: 0810 Matrix: Wastewater  
Sample: sed braks Client Name: NRG Discharge Power  
Description: 5 Steven Simmons

Date Sampled: 10-Aug-04 Date Received: 10-Aug-04  
Time Collected: 0715 Time Analyzed: 0830

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTH-20 | SM 9221E | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTH-20 | SM 9221B | < 20   | MPN/100 mL | 20  |

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## MICROBIOLOGY RESULTS

CRG ID#: 13399 Replicate #R1 Project ID: M04114 Batch ID: 0911 Matrix: Wastewater  
Sample: A&A Outfall Client Name: NRG El Segundo Power  
Description: 5 Shreve Scientific

Date Sampled: 10-Aug-04 Date Received: 10-Aug-04  
Time Collected: 0235 Time Analyzed: 0830

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTF 20 | SM 9221E | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTF 20 | SM 9221B | < 20   | MPN/100 mL | 20  |

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## MICROBIOLOGY RESULTS

CRG ID# : 13400    Replicate #81    Project ID: MC419a    Batch ID: 0819    Matrix: Wastewater

Sample : I&2 Intake    Client Name: NRC, Flamingo Power  
Description :    Station: Suisun

Date Sampled: 10-Aug-04    Date Received: 10-Aug-04  
Time Collected: 0630    Time Analyzed: 0830

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTF 20 | SM 9221C | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTF 20 | SM 9221B | < 20   | MPN/100 mL | 20  |

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## MICROBIOLOGY RESULTS

CRG ID# 13404 Replicate #01 Project ID: M-1191 Batch ID: 0811 Media: Water  
Sample 1&2 Cr.16 Client Name: NRI - El Segundo Power  
Description: 6 Spring Simons

Date Sampled: 10-Aug-04 Date Received: 10-Aug-04  
Time Collected: 0615 Time Analyzed: 0830

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTE 20 | SM 5221E | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTE 20 | SM 5221B | < 20   | MPN/100 mL | 20  |

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## MICROBIOLOGY RESULTS

CRG ID#: 13402 | Replicate #1 | Project ID: M04116 | Batch ID: 0410 | Matrix: Wastewater

Sample: 1&4 Inlet | Client Name: NRI Integrated Project  
Description: 6 | Steven Simmons

Date Sampled: 01 Aug 04 | Date Received: 03-Aug-04

Time Collected: 0515 | Time Analyzed: 0830

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTF 20 | SM 9221E | < 20   | MPN/100 mL | 20  |
| Total Coliform - MTF 20 | SM 9221B | < 20   | MPN/100 mL | 20  |

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## MICROBIOLOGY RESULTS

CRG ID#: 13403 Replicate #K1 Project ID: M14134 Batch ID: 0810 Matrix: Wastewater

Sample 554 (Solid) Client Name: NRG Shogunco Power  
Description: 0 Grams Sludge

Date Sampled: 10-Aug-04 Date Received: 10-Aug-04  
Time Collected: 0830 Time Analyzed: 0830

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MIN. |
|-------------------------|----------|--------|------------|------|
| Fecal Coliform / MPN 20 | SM 5221B | < 20   | MPN/100 ml | 20   |
| Total Coliform / MPN 20 | SM 5221B | < 20   | MPN/100 ml | 20   |

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## MICROBIOLOGY RESULTS

CRG ID#: 13404 Replicate #K1 Project ID: M0119a Batch ID: 0818 Matrix: Wastewater  
Sample: I&I Lake Client Name: NRG Electric Power  
Description: 7 State Summary

Date Sampled: 10-Aug-04 Date Received: 10-Aug-04  
Time Collected: 0915 Time Analyzed: 1330

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MUL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTF 20 | SM 9221B | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTF 20 | SM 9221B | < 20   | MPN/100 mL | 20  |

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## MICROBIOLOGY RESULTS

CRG ID#: 13405 Replicate # R1 Project ID: M0419a Batch ID: 0610 Matrix: Wastewater

Sample: 1&2 CluCol Client Name: NRG Ecoregion Project  
Description: 7 Shew. Stucco

Date Sampled: 10-Aug-04 Date Received: 10-Aug-04

Time Collected: 0855 Time Analyzed: 1330

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MUF 20 | SM 5221F | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTF 20 | SM 5221B | < 20   | MPN/100 mL | 20  |

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## MICROBIOLOGY RESULTS

CRG ID# : 13406    Replicate 081    Project ID: M04190    Batch ID: 0810    Matrix: Wastewater  
Sample Description : Sewer Inlet    Client Name: NRG Energy Power  
Shaw's Stations

Date Sampled: 10-Aug-04    Date Received: 10-Aug-04  
Time Collected: 0815    Time Analyzed: 1330

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTH-20 | SM 9221E | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTH-20 | SM 9221B | < 20   | MPN/100 mL | 20  |

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## MICROBIOLOGY RESULTS

CRG ID#: 13497 Replicate #R1 Project ID: M04704 Batch ID: 0810 Matrix: Wastewater  
Sample: SS-1 Coliform Client Name: NRG Electrical Power  
Description: 7 Station: Simmons

Date Sampled: 10-Aug-04 Date Received: 18-Aug-04  
Time Collected: 0835 Time Analyzed: 1330

| CONSTITUENT              | METHOD   | RESULT | UNIT       | MDL |
|--------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTF-2II | SM 9221F | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTF-2II | SM 9221B | < 20   | MPN/100 mL | 20  |

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## MICROBIOLOGY RESULTS

CRG ID# : 13408 : Replicate # R1 Project ID: MIA10a Batch ID: 0820 Matrix: Wastewater

Sample : 1 & 2 Loops Client Name: NRG El Segundo Power  
Description: # Seven Simons

Date Sampled: 10 Aug 04

Date Received: 10-Aug-04

Time Collected: 1333

Time Analyzed: 1330

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTF 20 | SM 9221E | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTF 20 | SM 9221B | < 20   | MPN/100 mL | 20  |

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## MICROBIOLOGY RESULTS

CRG ID#: 13409; Replicate #R:      Project ID: M14196      Batch ID: 0500      Matrix: Wastewater  
Sample: 142 GutGill      Client Name: NRC Integrated Power  
Description: k      Shawn Simmons

Date Sampled: 10-Aug-04      Date Received: 10-Aug-04  
Time Collected: 1215      Time Analyzed: 1330

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MUL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MFC 20 | SM 9221E | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTC 20 | SM 9221B | < 20   | MPN/100 mL | 20  |

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## MICROBIOLOGY RESULTS

CRG ID#: 13410 | Replicate #R1 | Project ID: M1415a | Batch ID: 0830 | Matrix: Wastewater  
Sample: S&A Sewer | Client Name: NRG Esequien Power  
Description: g | Sewer Simons

Date Sampled: 10-Aug-04 | Date Received: 13-Aug-04  
Time Collected: 11:15 | Time Analyzed: 1330

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MPL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MPN 20 | SM 9221B | < 20   | MPN/100 mL | 20  |
| Total Coliform / MPN 20 | SM 9221B | < 20   | MPN/100 mL | 20  |

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## MICROBIOLOGY RESULTS

CRG ID#: 13411 Replicate #K: Project ID: M04116 Batch ID: 0801 Matrix: Wastewater

Sample: 184 GutBil Client Name: NRG Ehsopside Power  
Description: K Station Simoes

Date Sampled: 10-Aug-04 Date Received: 10-Aug-04  
Time Collected: 1135 Time Analyzed: 1330

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform (MFC) 20 | SM 9271A | < 20   | MPN/100 mL | 20  |
| Total Coliform (MTC) 20 | SM 9271B | < 20   | MPN/100 mL | 20  |

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## MICROBIOLOGY RESULTS

CRG ID# : 13412 Replicate #R# Project ID: M04112 Batch ID: CRU1 Matrix: Wastewater

Sample 1&2 Inlets Client Name: NRG Energy/Edi Power  
Description: 9 System Simons

Date Sampled: 20-Aug-04 Date Received: 18-Aug-04  
Time Collected: 1455 Time Analyzed: 1630

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTF 20 | SM 9221E | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTF 20 | SM 9221B | < 20   | MPN/100 mL | 20  |

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## MICROBIOLOGY RESULTS

CRG ID#: 13413 | Replicate #10 | Project ID: M0419a | Batch ID: G519 | Matrix: Wastewater  
Sample: J8210201 | Client Name: NRG El Segundo Plant  
Description: 9 | Steam Simulant

Date Sampled: 10-Aug-04 | Date Received: 10-Aug-04  
Time Collected: 1515 | Time Analyzed: 1600

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Total Coliform / MTF 20 | SM 9221B | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTF 20 | SM 9221B | < 20   | MPN/100 mL | 20  |

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## MICROBIOLOGY RESULTS

CRG ID#: 113414 Replicate #R1 Project ID: MHA-9a Batch ID: 9610 Matrix: Wastewater  
 Sample: S&A Inake Client Name: NRG Sludgeless Sewer  
 Description: Shown Submittal

Date Sampled: 10-Aug-04 Date Received: 10-Aug-04  
 Time Collected: 1415 Time Analyzed: 1600

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTF 20 | SM 9221B | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTF 20 | SM 9221B | < 20   | MPN/100 mL | 20  |

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## MICROBIOLOGY RESULTS

CRG ID# 13415 Replacem 18.1 Project ID: M54195 Batch ID: 0810 Matrix: Wastewater

Sample 364 Outfall Client Name NRG Fluegas to Power  
Description 9 Shreve, Louisiana

Date Sampled: 10-Aug-04

Date Received: 10-Aug-04

Time Collected: 14:15

Time Analyzed: 1600

| CONSTITUENT             | METHOD   | RESULT | UNIT       | MDL |
|-------------------------|----------|--------|------------|-----|
| Fecal Coliform / MTF 20 | SM 9221B | < 20   | MPN/100 mL | 20  |
| Total Coliform / MTF 20 | SM 9221B | < 20   | MPN/100 mL | 20  |

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August 25, 2004

Power Production Chemical  
Southern California Edison  
7301 Fenwick Lane, 2<sup>nd</sup> Floor  
Westminster, CA 92683

Re. CRG Project ID: P24117  
SCE Project: 04121

ATTN: Mr. Shawn Simmons

CRG Marine Laboratories is pleased to provide you with the enclosed analytical data report for your 04121 Project. According to the chain-of-custody, 4 samples were received intact and cool at CRG on August 11, 2004. Per your instructions, the samples were analyzed for:

- Trace Metals By ICPMS Using EPA Method 1631 & 200.8

Please don't hesitate to call if you have any questions and thank you very much for using our laboratory for your analytical needs.

Regards,  
Misty Barja-Mercier  
Project Manager

Reviewed and Approved

Signed and sealed by Misty Barja-Mercier  
On: On: 08/25/04  
CRG Marine Laboratories, Inc.  
Date: 2004/08/25 09:01 AM

# **DATA REPORT**

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1205 (310) 533-5190 FAX (310) 533-5003 [crglabs@coxlabsci.net](mailto:crglabs@coxlabsci.net)

Client: Southern California Edison

CRG Project ID: 24117

| CRG ID#         | 19287           | Sample Description: | CMCC           | LCM-CRG Rawwater | Date Sampled:             |       |                 |                  |
|-----------------|-----------------|---------------------|----------------|------------------|---------------------------|-------|-----------------|------------------|
| Replicate #     | LCM             |                     |                |                  | Date Received:            |       |                 |                  |
| Batch ID:       | 24117 103/1     | Matrix:             | Seawater       |                  | Date Processed: 18-Aug-04 |       |                 |                  |
| Instrument:     | ICPMS #1 HP4500 | Analyst:            | P. Pershellman |                  | Date Analyzed: 23-Aug-04  |       |                 |                  |
| CONSTITUENT     | FRACTION        | METHOD              | RESULT         | UNITS            | MDL                       | RI    | DILUTION FACTOR | ACCEPTANCE RANGE |
| Aluminum (Al)   | Total           | EPA 1640            | ND             | µg/L             | 0.01                      | 0.125 | 1               | NA               |
| Arsenic (As)    | Total           | EPA 1640            | 0.057          | µg/L             | 0.01                      | 0.015 | 1               | NA               |
| Arsenic (As)    | Total           | FFA 1640            | 1.7            | µg/L             | 0.01                      | 0.015 | 1               | NA               |
| Boron (B)       | Total           | EPA 1640            | E 0.006        | µg/L             | 0.005                     | 0.01  | 1               | NA               |
| Cadmium (Cd)    | Total           | EPA 1640            | 0.004          | µg/L             | 0.005                     | 0.01  | 1               | NA               |
| Chromium (Cr)   | Total           | EPA 1640            | 0.915          | µg/L             | 0.005                     | 0.01  | 1               | NA               |
| Cobalt (Co)     | Total           | EPA 1640            | 0.111          | µg/L             | 0.005                     | 0.01  | 1               | NA               |
| Copper (Cu)     | Total           | EPA 1640            | 0.724          | µg/L             | 0.005                     | 0.01  | 1               | NA               |
| Iron (Fe)       | Total           | EPA 1640            | 3.455          | µg/L             | 0.01                      | 0.025 | 1               | NA               |
| Lead (Pb)       | Total           | EPA 1640            | 0.086          | µg/L             | 0.005                     | 0.01  | 1               | NA               |
| Manganese (Mn)  | Total           | EPA 1640            | 0.047          | µg/L             | 0.005                     | 0.01  | 1               | NA               |
| Mercury (Hg)    | Total           | EPA 1640            | ND             | µg/L             | 0.005                     | 0.01  | 1               | NA               |
| Molybdenum (Mo) | Total           | EPA 1640            | 9.58           | µg/L             | 0.005                     | 0.01  | 1               | NA               |
| Nickel (Ni)     | Total           | EPA 1640            | 0.27           | µg/L             | 0.005                     | 0.01  | 1               | NA               |
| Selenium (Se)   | Total           | EPA 1640            | E 0.31*        | µg/L             | 0.01                      | 0.015 | 1               | NA               |
| Silver (Ag)     | Total           | EPA 1640            | ND             | µg/L             | 0.005                     | 0.01  | 1               | NA               |
| Thallium (Tl)   | Total           | EPA 1640            | E 0.037        | µg/L             | 0.005                     | 0.01  | 1               | NA               |
| Tin (Sn)        | Total           | EPA 1640            | E 0.005        | µg/L             | 0.005                     | 0.01  | 1               | NA               |
| Titanium (Ti)   | Total           | EPA 1640            | 0.97           | µg/L             | 0.005                     | 0.01  | 1               | NA               |
| Zinc (Zn)       | Total           | EPA 1640            | 3              | µg/L             | 0.005                     | 0.01  | 1               | NA               |

MDL= Method Detection Limit (ICPMS 40 Part 136); RI= Minimum Level (SWBCB); E= Estimated Value below the MDL; NA= Not Detected; N/A= Not Applicable.

California ELAP Certificate #2261  
19287 LCM

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Client: Southern California Edison

CRG Project ID: 24117

| CRG Lab: 19287                 | Sample Description: | CRAC           | EM-CRG Scanner | Data Sampled:   |           |                 |                  |    |
|--------------------------------|---------------------|----------------|----------------|-----------------|-----------|-----------------|------------------|----|
| Replicate #: 1 CMP             |                     |                |                | Date Received:  |           |                 |                  |    |
| Batch ID: 24117-0071           | Matrix:             | Seawater:      |                | Date Processed: | 16-Aug-04 |                 |                  |    |
| Instrument: ICP-AES #1 H-5450M | Analyst:            | P. Heis-Vehnen |                | Date Analyzed:  | 25-Aug-04 |                 |                  |    |
| CONSTITUENT                    | FRACTION            | METHOD         | RESULT         | UNITS           | MDL       | DILUTION FACTOR | ACCEPTANCE RANGE |    |
| Aluminum (Al)                  | Total               | EPA 1640       | ND             | µg/L            | 0.01      | 0.125           | 1                | NA |
| Antimony (Sb)                  | Total               | EPA 1640       | 3.102          | µg/L            | 0.01      | 0.315           | 1                | NA |
| Arsenic (As)                   | Total               | EPA 1640       | 1.47           | µg/L            | 0.01      | 0.315           | 1                | NA |
| Beryllium (Be)                 | Total               | EPA 1640       | E 0.005        | µg/L            | 0.005     | 0.01            | 1                | NA |
| Cadmium (Cd)                   | Total               | EPA 1640       | 0.022          | µg/L            | 0.005     | 0.01            | 1                | NA |
| Chromium (Cr)                  | Total               | EPA 1640       | 0.945          | µg/L            | 0.005     | 0.01            | 1                | NA |
| Cobalt (Co)                    | Total               | EPA 1640       | 0.086          | µg/L            | 0.005     | 0.01            | 1                | NA |
| Copper (Cu)                    | Total               | EPA 1640       | 0.008          | µg/L            | 0.005     | 0.01            | 1                | NA |
| Iron (Fe)                      | Total               | EPA 1640       | 0.33           | µg/L            | 0.01      | 0.025           | 1                | NA |
| Lead (Pb)                      | Total               | EPA 1640       | 0.071          | µg/L            | 0.005     | 0.01            | 1                | NA |
| Manganese (Mn)                 | Total               | EPA 1640       | 0.986          | µg/L            | 0.005     | 0.01            | 1                | NA |
| Mercury (Hg)                   | Total               | EPA 1640       | ND             | µg/L            | 0.005     | 0.01            | 1                | NA |
| Molybdenum (Mo)                | Total               | EPA 1640       | 9.86           | µg/L            | 0.005     | 0.01            | 1                | NA |
| Nickel (Ni)                    | Total               | EPA 1640       | 0.235          | µg/L            | 0.005     | 0.01            | 1                | NA |
| Selenium (Se)                  | Total               | EPA 1640       | ND             | µg/L            | 0.01      | E 0.015         | 1                | NA |
| Silver (Ag)                    | Total               | EPA 1640       | ND             | µg/L            | 0.005     | 0.01            | 1                | NA |
| Thallium (Tl)                  | Total               | EPA 1640       | E 0.007        | µg/L            | E 0.005   | 0.01            | 1                | NA |
| Vanadium (V)                   | Total               | EPA 1640       | ND             | µg/L            | E 0.005   | 0.01            | 1                | NA |
| Vanadium (Ti)                  | Total               | EPA 1640       | 0.72           | µg/L            | 0.005     | 0.01            | 1                | NA |
| Zinc (Zn)                      | Total               | EPA 1640       | 2.92           | µg/L            | 0.005     | 0.01            | 1                | NA |

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL, and above the MDL; ND= Not Detected; NA= Not Applicable

California ELAP Certificate #2263  
19287 LCN2

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1208 (310) 633-5130 FAX (310) 633-6033 [enlabs@crglab.net](mailto:enlabs@crglab.net)

Client: Southern California Edison

CRG Project ID: 24117

| CONSTITUENT     |  | PREACTION | MPH(g)   | RESULT | UNITS | MDL   | RL    | DILUTION FACTOR | ACCEPTANCE RANGE |
|-----------------|--|-----------|----------|--------|-------|-------|-------|-----------------|------------------|
| Aluminum (Al)   |  | Total     | LPA 1640 | 13.4   | ug/L  | 0.01  | 0.125 | 1               | NA               |
| Arsenite (As)   |  | Total     | LPA 1640 | 0.11   | ug/L  | 0.01  | 0.015 | 1               | NA               |
| Arsenic (As)    |  | Total     | EPA 1640 | 1.75   | ug/L  | 0.01  | 0.015 | 1               | NA               |
| Barium (Ba)     |  | Total     | EPA 1640 | 0.009  | ug/L  | 0.005 | 0.01  | 1               | NA               |
| Cadmium (Cd)    |  | Total     | LPA 1640 | 0.02   | ug/L  | 0.005 | 0.01  | 1               | NA               |
| Chromium (Cr)   |  | Total     | EPA 1640 | 0.795  | ug/L  | 0.005 | 0.01  | 1               | NA               |
| Cobalt (Co)     |  | Total     | EPA 1640 | 0.055  | ug/L  | 0.005 | 0.01  | 1               | NA               |
| Copper (Cu)     |  | Total     | EPA 1640 | 0.703  | ug/L  | 0.005 | 0.01  | 1               | NA               |
| Iron (Fe)       |  | Total     | EPA 1640 | 8.42   | ug/L  | 0.01  | 0.025 | 1               | NA               |
| Lead (Pb)       |  | Total     | EPA 1640 | 0.14   | ug/L  | 0.005 | 0.01  | 1               | NA               |
| Manganese (Mn)  |  | Total     | EPA 1640 | 1.35   | ug/L  | 0.005 | 0.01  | 1               | NA               |
| Mercury (Hg)    |  | Total     | EPA 1640 | ND     | ug/L  | 0.005 | 0.01  | 1               | NA               |
| Molybdenum (Mo) |  | Total     | EPA 1640 | 3.95   | ug/L  | 0.005 | 0.01  | 1               | NA               |
| Nickel (Ni)     |  | Total     | EPA 1640 | 0.435  | ug/L  | 0.005 | 0.01  | 1               | NA               |
| Selenium (Se)   |  | Total     | EPA 1640 | 0.30   | ug/L  | 0.01  | 0.015 | 1               | NA               |
| Silver (Ag)     |  | Total     | EPA 1640 | ND     | ug/L  | 0.005 | 0.01  | 1               | NA               |
| Thallium (Tl)   |  | Total     | EPA 1640 | 0.009  | ug/L  | 0.005 | 0.01  | 1               | NA               |
| Tin (Sn)        |  | Total     | EPA 1640 | ND     | ug/L  | 0.005 | 0.01  | 1               | NA               |
| Titanium (Ti)   |  | Total     | EPA 1640 | 1.03   | ug/L  | 0.005 | 0.01  | 1               | NA               |
| Zinc (Zn)       |  | Total     | EPA 1640 | 3.71   | ug/L  | 0.005 | 0.01  | 1               | NA               |

MDL = Method Detection Limit (CFR 40 Part 136); RL = Minimum Level (SWRCB); For Estimated Value below the RL, and above the

California State Certificate # 2361

19268 RI

MDL = Not Detected; NA = Not Applicable.

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd. Suite 230, Torrance, CA 90501-1706 (310) 935-9793 FAX (310) 533-8033 [info@crglobal.net](mailto:info@crglobal.net)

Client: **Southern California Edison**

CRG Project ID: **24117**

CRG Lab: 19289 Sample: Unts 1&2 Duffall Composite Bldg# 2/12004 Date Sampled: 03 Aug 04  
 Replicate #: R1 Description: Project #04121 Date Received: 11-Aug-04  
 Batch ID: 24117-10071 Matrix: Sediment Date Processed: 18-Aug-04  
 Instrument: IC-MS 41 H-450C Analyst: F. Hershberger Date Analyzed: 23-Aug-04

| CONSTITUENT     | RESULT | UNIT | MDL   | DILUTION FACTOR | ACCEPTANCE RANGE |
|-----------------|--------|------|-------|-----------------|------------------|
| Aluminum (Al)   | 23.2   | µg/L | 0.01  | 0.125           | NA               |
| Antimony (Sb)   | 0.155  | µg/L | 0.01  | 0.015           | NA               |
| Arsenic (As)    | 1.59   | µg/L | 0.01  | 0.015           | NA               |
| Beryllium (Be)  | ND     | µg/L | 0.005 | 0.01            | NA               |
| Cadmium (Cd)    | 0.021  | µg/L | 0.005 | 0.01            | NA               |
| Chromium (Cr)   | 0.73   | µg/L | 0.005 | 0.01            | NA               |
| Cobalt (Co)     | 0.044  | µg/L | 0.005 | 0.01            | NA               |
| Copper (Cu)     | 2.74   | µg/L | 0.005 | 0.01            | NA               |
| Iron (Fe)       | 12.4   | µg/L | 0.01  | 0.025           | NA               |
| Lead (Pb)       | 0.506  | µg/L | 0.005 | 0.01            | NA               |
| Manganese (Mn)  | 1.58   | µg/L | 0.005 | 0.01            | NA               |
| Mercury (Hg)    | 0.0015 | µg/L | 0.005 | 0.01            | NA               |
| Molybdenum (Mo) | 13     | µg/L | 0.005 | 0.01            | NA               |
| Nickel (Ni)     | 0.555  | µg/L | 0.005 | 0.01            | NA               |
| Selenium (Se)   | 0.025  | µg/L | 0.01  | 0.015           | NA               |
| Silver (Ag)     | ND     | µg/L | 0.005 | 0.01            | NA               |
| Thallium (Tl)   | 0.03   | µg/L | 0.005 | 0.01            | NA               |
| Vanadium (V)    | 0.175  | µg/L | 0.005 | 0.01            | NA               |
| Zinc (Zn)       | 1.25   | µg/L | 0.005 | 0.01            | NA               |
|                 | 0.24   | µg/L | 0.005 | 0.01            | NA               |

MDL = Method Detection Limit (CFR 40 Part 136); RU = Minimum Limit (SWRCB); R = Estimated Value Below the RL and above the MDL; N/A = Not Detected; NA = Not Applicable.

California SLAT Certificate #2263

19289

RI

# CRG Marine Laboratories, Inc.

3020 De Anza Blvd., Suite 200, Torrance, CA 90501-1708 (310) 533-5180 FAX (310) 533-5183 [info@crglab.com](mailto:info@crglab.com)

**Client:** Southern California Edison

**CRG Project ID:** 24117

**CRG ID#:** 19290

**Replicate #:** R1 **Sample Description:** Units 3&4 Intake Project #C4121

**Batch ID:** 24117-10071

**Instrument:** ICP-AES #1 164500 **Matrix:** Seawater

**Analyst:** P. Hershman

**Composite:** 8/3/04 8/17/04

**Date Sampled:** 30-Aug-04

**Date Received:** 11-Aug-04

**Date Processed:** 18-Aug-04

**Date Analyzed:** 23-Aug-04

| CONSTITUENT     | FRACTION | METHOD   | RESULT  | UNITS | MDL     | DILUTION FACTOR | ACCEPTANCE RANGE |
|-----------------|----------|----------|---------|-------|---------|-----------------|------------------|
| Aluminum (Al)   | Total    | EPA 1640 | 8.78    | µg/L  | 0.07    | 0.125           | NA               |
| Antimony (Sb)   | Total    | EPA 1640 | 0.12    | µg/L  | 0.01    | 0.015           | NA               |
| Arsenic (As)    | Total    | EPA 1640 | 1.65    | µg/L  | 0.01    | 0.015           | NA               |
| Beryllium (Be)  | Total    | EPA 1640 | E.C.005 | µg/L  | 0.005   | 0.01            | NA               |
| Cadmium (Cd)    | Total    | EPA 1640 | 0.025   | µg/L  | 0.005   | 0.01            | NA               |
| Chromium (Cr)   | Total    | EPA 1640 | 0.725   | µg/L  | 0.005   | 0.01            | NA               |
| Cobalt (Co)     | Total    | EPA 1640 | 0.355   | µg/L  | 0.005   | 0.01            | NA               |
| Copper (Cu)     | Total    | EPA 1640 | 1.11    | µg/L  | 0.005   | 0.01            | NA               |
| Iron (Fe)       | Total    | EPA 1640 | 4.5     | µg/L  | 0.01    | 0.025           | NA               |
| Lead (Pb)       | Total    | EPA 1640 | 0.152   | µg/L  | 0.005   | 0.01            | NA               |
| Manganese (Mn)  | Total    | EPA 1640 | 1.2     | µg/L  | 0.005   | 0.01            | NA               |
| Mercury (Hg)    | Total    | EPA 1640 | E.C.005 | µg/L  | 0.005   | 0.01            | NA               |
| Molybdenum (Mo) | Total    | EPA 1640 | 10.3    | µg/L  | 0.005   | 0.01            | NA               |
| Niobium (Nb)    | Total    | EPA 1640 | 0.419   | µg/L  | 0.005   | 0.01            | NA               |
| Selenium (Se)   | Total    | EPA 1640 | 0.029   | µg/L  | 0.01    | 0.015           | NA               |
| Silver (Ag)     | Total    | EPA 1640 | NO      | µg/L  | E.C.005 | 0.01            | NA               |
| Thallium (Tl)   | Total    | EPA 1640 | E.C.005 | µg/L  | 0.005   | 0.01            | NA               |
| Tin (Sn)        | Total    | EPA 1640 | E.C.005 | µg/L  | 0.005   | 0.01            | NA               |
| Titanium (Ti)   | Total    | EPA 1640 | 0.902   | µg/L  | 0.005   | 0.01            | NA               |
| Zinc (Zn)       | Total    | EPA 1640 | 2.78    | µg/L  | 0.005   | 0.01            | NA               |

MDL = Method Detection Limit (C2B 40 Part 136). RI = Maximum Level (SW-846); E = Estimated Value below the RI, and above the MDL; ND = Not Detected; NA = Not Applicable.

California ELAP Certificate # 1364

19290 RJ

# CRG Marine Laboratories, Inc.

2020 Del Arco Blvd. Suite 200C, Torrance, CA 90501-1206 (310) 533-6190 FAX (310) 533-8003 [crqlabs@crqlabs.com](mailto:crqlabs@crqlabs.com)

Client: Southern California Edison

CRG Project ID: 24117

CRG ID#: 19289 Sample: Units 1&2 Duffell  
 Replicate #: R2 Description: Project #94121  
 Batch ID: 24117-10071 Matrix: Seawater  
 Instrument: ICP-AES #1 F-74500 Analyst: P. Hershberger  
 Date Sampled: 05-Aug-04  
 Date Received: 11-Aug-04  
 Date Processed: 18-Aug-04  
 Date Analyzed: 23-Aug-04

| CONSTITUENT     | FRACTION | METHOD   | RESULT  | UNITS | MDL   | RL    | DILUTION FACTOR | ACCEPTANCE RANGE |
|-----------------|----------|----------|---------|-------|-------|-------|-----------------|------------------|
| Aluminum (Al)   | Total    | EPA 1640 | 19.5    | µg/L  | 0.01  | 0.125 | 1               | NA               |
| Antimony (Sb)   | Total    | EPA 1640 | 0.157   | µg/L  | 0.01  | 0.015 | 1               | NA               |
| Arsenic (As)    | Total    | EPA 1640 | 1.61    | µg/L  | 0.01  | 0.015 | 1               | NA               |
| Beryllium (Be)  | Total    | EPA 1640 | ND      | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Cadmium (Cd)    | Total    | EPA 1640 | 0.018   | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Chromium (Cr)   | Total    | EPA 1640 | 0.805   | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Cobalt (Co)     | Total    | EPA 1640 | 0.045   | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Copper (Cu)     | Total    | EPA 1640 | 2.63    | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Iron (Fe)       | Total    | EPA 1640 | 12.2    | µg/L  | 0.01  | 0.025 | 1               | NA               |
| Lead (Pb)       | Total    | EPA 1640 | 0.49    | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Manganese (Mn)  | Total    | EPA 1640 | 1.68    | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Mercury (Hg)    | Total    | EPA 1640 | F 0.005 | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Molybdenum (Mo) | Total    | EPA 1640 | 2.39    | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Niobium (Nb)    | Total    | EPA 1640 | 3.522   | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Selenium (Se)   | Total    | EPA 1640 | 3.077   | µg/L  | 0.01  | 0.015 | 1               | NA               |
| Silver (Ag)     | Total    | EPA 1640 | ND      | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Thallium (Tl)   | Total    | EPA 1640 | E 0.31  | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Tin (Sn)        | Total    | EPA 1640 | 0.117   | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Titanium (Ti)   | Total    | EPA 1640 | 1.34    | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Zinc (Zn)       | Total    | EPA 1640 | 4.95    | µg/L  | 0.005 | 0.01  | 1               | NA               |

MDL = Method Detection Limit (CFR 40 Part 136); RL = Maximum Level (SWRC TR); F = Estimated Value below the RL and above the MDL; NB = Not Detected; NA = Not Applicable

California ELAP Certificate # 2348  
 19289 R2

# CRG Marine Laboratories, Inc.

20120 Del Arroyo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5193 FAX (310) 533-5303 [crqlabs@crqlabs.com](mailto:crqlabs@crqlabs.com)

**Client: Southern California Edison**

**CRG Project ID: 24117**

| CRG Job: 19291               | Sample Description: Juts 364 Critical Project #C4121 | Compliance 8/5/04-8/19/04 |          | Date Sampled: 09-Aug-04   |       |       |       |                 |                  |
|------------------------------|--|---------------------------|----------|---------------------------|-------|-------|-------|-----------------|------------------|
| Replicate #: R1              | Matrix: Seawater                                     |                           |          | Date Received: 11-Aug-04  |       |       |       |                 |                  |
| Batch ID: 24117-10071        | Analyst: P. Bernstein                                |                           |          | Date Processed: 18-Aug-04 |       |       |       |                 |                  |
| Instrument: ID-PAS #1 HP4500 |  |                           |          | Date Analyzed: 23-Aug-04  |       |       |       |                 |                  |
| CONSTITUENT                  |  | FRACTION                  | METHOD   | RESULT                    | UNITS | MDL   | RL    | DILUTION FACTOR | ACCEPTANCE RANGE |
| Aluminum (Al)                | Total  |                           | EPA 1640 | 12.2                      | µg/L  | 0.01  | 0.125 | 1               | NA               |
| Antimony (Sb)                | Total  |                           | EPA 1640 | 3.106                     | µg/L  | 0.01  | 0.015 | 1               | NA               |
| Arsenic (As)                 | Total  |                           | EPA 1640 | 1.54                      | µg/L  | 0.01  | 0.015 | 1               | NA               |
| Beryllium (Be)               | Total  |                           | EPA 1640 | ND                        | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Cadmium (Cd)                 | Total  |                           | EPA 1640 | 0.027                     | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Chromium (Cr)                | Total  |                           | EPA 1640 | 0.805                     | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Cobalt (Co)                  | Total  |                           | EPA 1640 | 0.384                     | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Copper (Cu)                  | Total  |                           | EPA 1640 | 1.25                      | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Iron (Fe)                    | Total  |                           | EPA 1640 | 10.2                      | µg/L  | 0.01  | 0.025 | 1               | NA               |
| Lead (Pb)                    | Total  |                           | EPA 1640 | 1.14                      | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Manganese (Mn)               | Total  |                           | EPA 1640 | 2.03                      | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Mercury (Hg)                 | Total  |                           | EPA 1640 | ND                        | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Molybdenum (Mo)              | Total  |                           | EPA 1640 | 9.61                      | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Nickel (Ni)                  | Total  |                           | EPA 1640 | 0.547                     | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Selenium (Se)                | Total  |                           | EPA 1640 | 0.024                     | µg/L  | 0.01  | 0.015 | 1               | NA               |
| Silver (Ag)                  | Total  |                           | EPA 1640 | ND                        | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Thallium (Tl)                | Total  |                           | EPA 1640 | ± 0.008                   | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Vanadium (V)                 | Total  |                           | EPA 1640 | ± 0.009                   | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Zinc (Zn)                    | Total  |                           | EPA 1640 | 0.992                     | µg/L  | 0.005 | 0.01  | 1               | NA               |
|                              |  |                           | EPA 1640 | 37.4                      | µg/L  | 0.005 | 0.01  | 1               | NA               |

MDL= Method Detection Limit (CFR 40 Part 136); RL = Minimum Level (SWHCR); ND= Not Detected; NA= Not Applicable  
 19291 RL

California ELAP Certificate # 2361

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd. Suite 200 Torrance, CA 90501-1206 (310) 553-6190 FAX (310) 553-6003 [info@slcrjlab.com](mailto:info@slcrjlab.com)

**Client:** Southern California Edison

**CRG Project ID:** 24117

|              |             |                     |              |                  |                 |    |                 |                  |
|--------------|-------------|---------------------|--------------|------------------|-----------------|----|-----------------|------------------|
| CRG ID#:     | 19287       | Sample Description: | CrOIC        | LCM-CRG Seawater | Date Sampled:   |    |                 |                  |
| Replicate #: | LCM-        |                     |              |                  | Date Received:  |    |                 |                  |
| Batch ID:    | 24117-24117 | Matrix:             | Seawater     |                  | Date Proceeded: |    |                 |                  |
| Instrument:  |             | Analyst:            | P. Peshchian |                  | Date Analyzed:  |    |                 |                  |
| CONSTITUENT  | FRACTION    | METHOD              | RESULT       | UNITS            | MIN.            | RL | DILUTION FACTOR | ACCEPTANCE RANGE |
| Uranium      |             | EPA 200.8           | ND           | mg/L             | 1               | 5  | 1               | NA               |
| Boron (P)    |             | EPA 200.8           | 4.85         | mg/L             | 1               | 5  | 1               | NA               |

NDL= Method Detection Limit (CER 40 Part 1.56); RL= Minimum Level (USEPA); R= Estimated Value Below the RL and above the NDL; IU= Not Detected; NA= Not Applicable

California ELAP Certificate #2261  
19287 LCM

# CRG Marine Laboratories, Inc.

2020 De Anza Blvd., Suite 230, Torrance, CA 90501-1205 (310) 533-5180 FAX (310) 533-5103 [info@cmg-lab.com](mailto:info@cmg-lab.com)

Client: Southern California Edison

CRG Project ID: 24117

CRG ID# 19287  
 Replicate # LCM2  
 Batch ID: 24117-24117  
 Instrument: LCM2  
 Sample Description: LCM-CRG Seawater  
 Matrix: Seawater  
 Analyst: P. Hirschelmann  
 Date Sampled:   
 Date Received:   
 Date Processed: 23 Aug 04  
 Date Analyzed: 23-Aug-04

| CONSTITUENT | REACTION | METHOD    | RESULT | UNIT | MDL | RL | DIRECTION | ACCEPTANCE |
|-------------|----------|-----------|--------|------|-----|----|-----------|------------|
|             |          |           |        |      |     |    | FACTOR    | RANGE      |
| Barium      |          | EPA 200.5 | ND     | mg/L | 1   | E  | 1         | NA         |
| Boron (B)   |          | EPA 200.5 | 4.90   | mg/L | 1   | E  | 1         | NA         |

Method: Method Detection Limit (MDL) (EPA 40 CFR 136). MDL - Minimum Level (SWBCB). E - Estimated value below the MDL and above the MDL. ND - Not Detected. NA - Not Applicable.

California State Laboratory  
 10257 L7612

# CRG Marine Laboratories, Inc.

2023 Los Alamos Blvd., Suite 200, Torrance, CA 90501-2064 (310) 533-6190 FAX (310) 533-6193 [info@crglab.com](mailto:info@crglab.com)

**Client:** Southern California Edison

**CRG Project ID:** 24117

CRG ID#: 19288  
 Sample Description: Wills 1&2 Intake  
 Project #04121  
 Batch ID: 24117 24117  
 Matrix: Seawater  
 Analyst: P. Hershberger  
 Date Sampled: 03-Aug-04  
 Date Received: 11-Aug-04  
 Date Processed: 23-Aug-04  
 Date Analyzed: 23-Aug-04

| CONSTITUENT | FRAC/TYPE | METHOD    | RESULT | UNITS | MDL | RL | DILUTION FACTOR | ACCEPTANCE RANGE |
|-------------|-----------|-----------|--------|-------|-----|----|-----------------|------------------|
| Barium      |           | EPA 200.8 | ND     | mg/L  | 1   | 5  | 1               | NA               |
| Boron (B)   |           | EPA 200.8 | 4.82   | mg/L  | 1   | 5  | 1               | NA               |

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SW-REB); R= Retained Value below the RL and above the MDL; NA= Not Detected; NA= Not Applicable.

California RCAP Certificate # 2261  
 19288 30

# CRG Marine Laboratories, Inc.

2220 Del Amo Blvd., Suite 230, Torrance, CA 90501-1204 (310) 553-5150 FAX (310) 553-5003 [info@crglabs.com](mailto:info@crglabs.com)

Client: Southern California Edison

CRG Project ID: 24117

CRG ID#: 19289  
 Replicate #: R:  
 Batch ID: 241-7-241-7  
 Instrument:   
 Sample Description: 1/1618 Oulal  
 Matrix: Seawater  
 Analyst: P. Heiselman  
 Date Sampled: 08-Aug-04  
 Date Received: 11-Aug-04  
 Date Processed: 23-Aug-04  
 Date Analyzed: 23-Aug-04

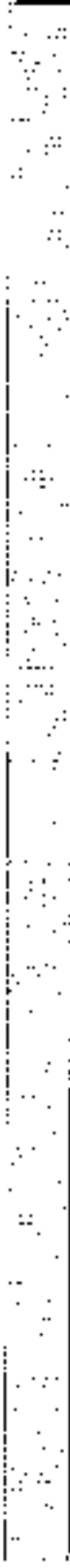
| CONSTITUENT | FRACTION | METHOD    | RESULT | UNITS | MDL | RL | DILUTION FACTOR | ACCEPTANCE RANGE |
|-------------|----------|-----------|--------|-------|-----|----|-----------------|------------------|
| Barium      |          | LFA 210.8 | ND     | mg/L  | 1   | 5  | 1               | NA               |
| Baron (B)   |          | FFA 230.8 | 4.95   | mg/L  | 1   | 5  | 1               | NA               |

MDL - Method Detection Limit (CER 40 Part 130); RL - Maximum Level (SWRC 85); N - Estimated Value below the RL and above the MDL; ND - Not Detected; NA - Not Applicable

California L.A.P. Certificate # 2261  
 19289 RL

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 230, Torrance, CA 90501-1206 (310) 533-5100 FAX (310) 533-6003 [info@crglab.net](mailto:info@crglab.net)



**Client:** Southern California Edison

**CRG Project ID:** 24117

|              |             |              |                  |                       |                 |           |
|--------------|-------------|--------------|------------------|-----------------------|-----------------|-----------|
| CRG ID#:     | 19290       | Sample       | Units 3&4 Intake | Compendia 3&4-4/10/04 | Date Sampled:   | 03-Aug-04 |
| Replicate #: | R1          | Description: | Project #04121   |                       | Date Received:  | 11-Aug-04 |
| Batch ID:    | 24117-24117 | Matrix:      | Seawater         |                       | Date Processed: | 23-Aug-04 |
| Instrument:  |             | Analyst:     | F. Hershberger   |                       | Date Analyzed:  | 23-Aug-04 |

| CONSTITUENT | FRACTION | METHOD    | RESULT | UNITS | MIN. | RL | DILUTION<br>FACTOR | ACCEPTANCE<br>RANGE |
|-------------|----------|-----------|--------|-------|------|----|--------------------|---------------------|
| Uranium     |          | EPA 200.8 | ND     | mg/L  | 1    | 5  | 1                  | NA                  |
| Barium (P)  |          | EPA 200.9 | 5.1*   | mg/L  | 1    | 5  | 1                  | NA                  |

MDL = Method Detection Limit (CERCLA Part 136), RL = Minimum Level (SWRCR), E = Estimated Value below the RL and above the MDL, ND = Not Detected, NA = Not Applicable

California ELAP Certificate #2363  
19290 R3

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501 1234 (310) 553-5190 FAX (310) 553-5003 [crglabs@superval.net](mailto:crglabs@superval.net)

Client: Southern California Edison

CRG Project ID: 24117

CRG ID#: 19281 Date Sampled: 09-Aug-04  
 Replicate #: R1 Date Received: 11-Aug-04  
 Batch ID: 24117-24117 Date Processed: 23-Aug-04  
 Instrument: Analyst: P. Hershelman Date Analyzed: 23-Aug-04

Composite SMTC4-RV1004

Unit 384 Outfall

Description: Project 904721

Matrix: Sewer

Analyst: P. Hershelman

| CONSTITUENT | REACTION | METHOD    | RESULT | UNITS | MDL | BT | DILUTION<br>FACTOR | ACCEPTANCE<br>RANGE |
|-------------|----------|-----------|--------|-------|-----|----|--------------------|---------------------|
| Sealant     |          | EPA 200.8 | ND     | mg/L  | 1   | 5  | 1                  | NA                  |
| Barium      |          | EPA 200.8 | 8.17   | mg/L  | 1   | 5  | 1                  | NA                  |

MDL = Method Detection Limit (CER 40 Part 136); RL = Minimum Level (SWRCB); E = Estimated Value below the RL and above the MDL; ND = Not Detected; NA = Not Applicable.

CRG Marine Laboratories, Inc.

CRG Project ID: 24117

19281 R1

# CRG Marine Laboratories, Inc.

30231 Los Arroyo Blvd., Suite 200, Torrance, CA 90501-1208 (310) 533-5130 FAX (310) 533-5003 [crglabs@calnetlab.net](mailto:crglabs@calnetlab.net)

Client: Southern California Edison

CRG Project ID: 24117

CRG ID# 19288 Sample JMS 167 Oufel  
 Replicate # R2 Description: Project #C4121  
 Batch ID: 24117 24117 Matrix: Seawater  
 Instrument: Analyst: F. Herselman

Date Sampled: 03-Aug-04

Date Received: 11-Aug-04

Date Processed: 23-Aug-04

Date Analyzed: 23-Aug-04

Composilla 6/3/04 5/13/04

| CONSTITUENT | FRACTION | METHOD    | RESULT | UNITS | MDL | RT | DILUTION FACTOR | ACCEPTANCE RANGE |
|-------------|----------|-----------|--------|-------|-----|----|-----------------|------------------|
| Oil/gal     |          | LPA 200.8 | ND     | mg/L  |     | 5  |                 | NA               |
| Hexon (B)   |          | HPA 970.8 | 5.08   | mg/L  |     | 5  |                 | NA               |

MDL = Method Detection Limit (L2-B 40 Part 130); RT = Retention Time; ND = Not Detected; NA = Not Applicable

California E-LAP Certificate # 2202  
 10/24/04 R2

# **QUALITY CONTROL REPORT**

## **PROCEDURAL BLANK RESULTS**

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200 Torrance, CA 90501-1206 (310) 533-5003 or labs@scglab.com

Client: Southern California Edison

CRG Project ID: 24117

| CONSTITUENT     | FRACTION | METHOD   | RESULT | UNITS | MDL   | RL    | DILUTION FACTOR | ACCEPTANCE RANGE |
|-----------------|----------|----------|--------|-------|-------|-------|-----------------|------------------|
| Aluminum (Al)   | Total    | EPA 1643 | ND     | µg/L  | 0.01  | 0.125 | 1               | NA               |
| Antimony (Sb)   | Total    | EPA 1643 | ND     | µg/L  | 0.01  | 0.015 | 1               | NA               |
| Arsenic (As)    | Total    | EPA 1643 | ND     | µg/L  | 0.01  | 0.015 | 1               | NA               |
| Barium (Ba)     | Total    | EPA 1643 | ND     | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Beryllium (Be)  | Total    | EPA 1643 | ND     | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Cadmium (Cd)    | Total    | EPA 1643 | ND     | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Chromium (Cr)   | Total    | EPA 1643 | ND     | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Cobalt (Co)     | Total    | EPA 1643 | ND     | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Copper (Cu)     | Total    | EPA 1643 | ND     | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Iron (Fe)       | Total    | EPA 1643 | ND     | µg/L  | 0.01  | 0.025 | 1               | NA               |
| Lead (Pb)       | Total    | EPA 1643 | ND     | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Manganese (Mn)  | Total    | EPA 1643 | ND     | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Mercury (Hg)    | Total    | EPA 1643 | ND     | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Molybdenum (Mo) | Total    | EPA 1643 | ND     | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Nickel (Ni)     | Total    | EPA 1643 | ND     | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Selenium (Se)   | Total    | EPA 1643 | ND     | µg/L  | 0.01  | 0.015 | 1               | NA               |
| Silver (Ag)     | Total    | EPA 1643 | ND     | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Thallium (Tl)   | Total    | EPA 1643 | ND     | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Tin (Sn)        | Total    | EPA 1643 | ND     | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Thoronium (Tl)  | Total    | EPA 1643 | ND     | µg/L  | 0.005 | 0.01  | 1               | NA               |
| Zinc (Zn)       | Total    | EPA 1643 | ND     | µg/L  | 0.005 | 0.01  | 1               | NA               |

MDL = Method Detection Limit (CFR 40 Part 136); RL = Minimum Level (SWMLB); E = Estimated Value below the RL and above the MDL; ND = Not Detected; NA = Not Applicable

California EAP Certificate # 2363  
19286 BJ

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 [info@crglab.net](mailto:info@crglab.net)

Client: Southern California Edison

CRG Project ID: 24117

CRG ID#: 19286  
 Replicate #: 31  
 Batch ID: 24117-24117  
 Inoculum:  
 Sample Description: Procedural Blank  
 QACC  
 Matrix: DI Water  
 Analyte: P. heterotrophus  
 Date Sampled:  
 Date Received:  
 Date Processed: 23-Aug-04  
 Date Analyzed: 23-Aug-04

| CONSTITUENT | FRACTION | METHOD    | RESULT | UNITS | MDL | REPLICATE | DILUTION FACTOR | ACCEPTANCE RANGE |
|-------------|----------|-----------|--------|-------|-----|-----------|-----------------|------------------|
| Residue     |          | FPA 200.8 | ND     | mg/L  | 1   | 5         | 1               | NA               |
| Carbon (d)  |          | FPA 200.8 | ND     | mg/L  | 1   | 5         | 1               | NA               |

MDL = Method Detection Limit (CFR 40 Part 136); RL = Minimum Level (SMPCB); E = Estimated Value below the RL and above the MDL; ND = Not Detected; NA = Not Applicable.

California MLAP Certificate #2261  
 19286 31

## **ACCURACY DATA**

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 230, Torrance, CA 90501-1204 (310) 573-5190 FAX (310) 533-5003 [crglabs@crclab.net](mailto:crglabs@crclab.net)

Client: Southern California Edison

CRG Project ID: 24117

| CONSTITUENT     | METHOD   | % RECOVERY | CRM VALUE | ACCEPTANCE RANGE | COMMENT |
|-----------------|----------|------------|-----------|------------------|---------|
| Aluminum (Al)   | EPA 1640 | 119        | 20 µg/L   | 52 - 148%        | PASS    |
| Antimony (Sb)   | EPA 1640 | 95         | 25 µg/L   | 44 - 107%        | PASS    |
| Arsenic (As)    | EPA 1640 | 85         | 20 µg/L   | 71 - 114%        | PASS    |
| Beryllium (Be)  | EPA 1640 | 77         | 20 µg/L   | 62 - 152%        | PASS    |
| Cadmium (Cd)    | EPA 1640 | 80         | 25 µg/L   | 69 - 170%        | PASS    |
| Chromium (Cr)   | EPA 1640 | 111        | 20 µg/L   | 85 - 132%        | PASS    |
| Cobalt (Co)     | EPA 1640 | 105        | 20 µg/L   | 75 - 124%        | PASS    |
| Copper (Cu)     | EPA 1640 | 85         | 25 µg/L   | 72 - 128%        | PASS    |
| Iron (Fe)       | EPA 1640 | 86         | 25 µg/L   | 35 - 97%         | PASS    |
| Lead (Pb)       | EPA 1640 | 83         | 25 µg/L   | 56 - 115%        | PASS    |
| Manganese (Mn)  | EPA 1640 | 87         | 20 µg/L   | 64 - 123%        | PASS    |
| Mercury (Hg)    | EPA 1640 | 82         | 1 µg/L    | 65 - 117%        | PASS    |
| Molybdenum (Mo) | EPA 1640 | 84         | 25 µg/L   | 59 - 22%         | PASS    |
| Nickel (Ni)     | EPA 1640 | 88         | 25 µg/L   | 58 - 116%        | PASS    |
| Selenium (Se)   | EPA 1640 | 81         | 25 µg/L   | 55 - 110%        | PASS    |
| Silver (Ag)     | EPA 1640 | 113        | 20 µg/L   | 63 - 125%        | PASS    |
| Sodium (Na)     | EPA 1640 | 74         | 20 µg/L   | 65 - 110%        | PASS    |
| Tin (Sn)        | EPA 1640 | 90         | 25 µg/L   | 69 - 110%        | PASS    |
| Titanium (Ti)   | EPA 1640 | 120        | 20 µg/L   | 85 - 133%        | PASS    |
| Zinc (Zn)       | EPA 1640 | 79         | 20 µg/L   | 62 - 108%        | PASS    |

MDL = Method Detection Limit (CFR 40 Part 136); RL = Minimum Level (SWRCB); E = Estimated Value below the RL and above the MDL; N/A = Not Detected; NA = Not Applicable.

California State Laboratory  
10287 NRS

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1208 (2° 0' N) 523-6190 FAX (3° 0') 573-5073 [www.abso.com](http://www.abso.com)

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1208 (2° 0' N) 523-6190 FAX (3° 0') 573-5073 [www.abso.com](http://www.abso.com)

CRG Project ID: 24117

MDL: Method Protective Limit (EPA 40 Part 136); E: Estimated Value below the RL and above the MDL; ND: Not Detected; NA: Not Applicable.

## **PRECISION DATA**

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd. Suite 200 Torrance, CA 90501 1206 (310) 523-5750 FAX (310) 523-5003 [info@crglabs.com](mailto:info@crglabs.com)

Client: Southern California Edison

CRG Project ID: 24117

CRG ID: 18289

Composite Date: 2/13/04

Date Sampled: 05-Aug-04

Batch ID: 24117-0071

Date Received: 11-Aug-04

Instrument: ICP/MS #1 HP4500

Date Processed: 18-Aug-04

Sample Description: Units 162 Outfall Project #04-21

Date Analyzed: 23-Aug-04

Matrix: Seawater

Analyst: F. Henderson

| CONSTITUENT     | METHOD   | R1<br>µg/L | R2<br>µg/L | % RPD | ACCEPTANCE<br>RANGE | COMMENT |
|-----------------|----------|------------|------------|-------|---------------------|---------|
| Aluminum (Al)   | EPA 1640 | 23.2       | 19.5       | 17    | 0 - 10%             | PASS    |
| Antimony (Sb)   | EPA 1640 | 0.158      | 0.157      | 1     | 0 - 10%             | PASS    |
| Arsenic (As)    | EPA 1640 | 1.59       | 1.61       | 1     | 0 - 10%             | PASS    |
| Cadmium (Cd)    | EPA 1640 | 0.021      | 0.019      | 15    | 0 - 10%             | PASS    |
| Chromium (Cr)   | EPA 1640 | 0.73       | 0.805      | 10    | 0 - 10%             | PASS    |
| Cobalt (Co)     | EPA 1640 | 0.044      | 0.045      | 2     | 0 - 10%             | PASS    |
| Copper (Cu)     | EPA 1640 | 2.74       | 2.53       | 4     | 0 - 10%             | PASS    |
| Iron (Fe)       | EPA 1640 | 12.4       | 12.2       | 2     | 0 - 10%             | PASS    |
| Lead (Pb)       | EPA 1640 | 0.508      | 0.49       | 3     | 0 - 10%             | PASS    |
| Manganese (Mn)  | EPA 1640 | 1.58       | 1.58       | 0     | 0 - 10%             | PASS    |
| Mercury (Hg)    | EPA 1640 | 0.005      | 0.005      | 0     | 0 - 10%             | PASS    |
| Molybdenum (Mo) | EPA 1640 | 10         | 9.39       | 6     | 0 - 10%             | PASS    |
| Nickel (Ni)     | EPA 1640 | 0.555      | 0.522      | 8     | 0 - 10%             | PASS    |
| Selenium (Se)   | EPA 1640 | 0.029      | 0.027      | 7     | 0 - 10%             | PASS    |
| Thallium (Tl)   | EPA 1640 | 0.01       | 0.01       | 0     | 0 - 10%             | PASS    |
| Tin (Sn)        | EPA 1640 | 0.125      | 0.117      | 13    | 0 - 10%             | PASS    |
| Vanadium (V)    | EPA 1640 | 1.25       | 1.34       | 7     | 0 - 10%             | PASS    |
| Zinc (Zn)       | EPA 1640 | 5.24       | 4.95       | 6     | 0 - 10%             | PASS    |

NDL = NIOSH Detection Limit (CFR 40 Part 136); R1 = Minimum Level (NWRCLB); R2 = Estimated Value below the R1, and above the NDL; N/A = Not Detected; NA = Not Applicable

California Edison Certification 2248

10289

# **CRG Marine Laboratories, Inc.**

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1200 (310) 512-5190 FAX (310) 512-5001 [info@crglabs.com](mailto:info@crglabs.com)

**Client: Southern California Edison**

CRG No: 19289

CRG Project ID: 24117

Batch ID: 24117-24117

Date Sampled: 09-Aug-04

Instrument:

Date Received: 11-Aug-04

Sample Description: Unit's 1&7 Outfall Project #34721

Date Processed: 23-Aug-04

Matrix: Seawater

Date Analyzed: 23-Aug-04

Analyte: P (arsenic)

METHOD

Baron (2)

NTU = Nephelometric Turbidity Unit; C.F.R. 41 Part 136; RL = Minimum Level (SW-RL); E = Estimated Value below the RL and above the MRL; ND = Not Detected; NA = Not Applicable. California EPA Certificate #2261 19289

# CRG Marine Laboratories, Inc.

2070 Del Amo Blvd. Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5300 [info@cgmlab.com](mailto:info@cgmlab.com)

Client: Southern California Edison

CRG Project ID: 24117

CRG ID# 19287

Sample Description: LCM-CRG Seawater

Date Sampled:

Batch ID: 24117 10071

Date Received:

Instrument: IC-MS #1 HP4500

Date Processed:

Matrix: Seawater

18-Aug-04

Analyst: P. Horsfieldman

Date Analyzed:

23-Aug-04

| CONSTITUENT     | METHOD   | MS1<br>% Recovery | MS2<br>% Recovery | % RPD | ACCEPTANCE<br>RANGE | COMMENT |
|-----------------|----------|-------------------|-------------------|-------|---------------------|---------|
| Aluminum (Al)   | EPA 1640 | 119               | 109               | 8     | 0 - 30%             | PASS    |
| Antimony (Sb)   | EPA 1640 | 50                | 100               | 5     | 0 - 30%             | PASS    |
| Arsenic (As)    | EPA 1640 | 50                | 88                | 3     | 0 - 30%             | PASS    |
| Beryllium (Be)  | EPA 1640 | 77                | 79                | 3     | 0 - 30%             | PASS    |
| Cadmium (Cd)    | EPA 1640 | 80                | 83                | 4     | 0 - 30%             | PASS    |
| Chromium (Cr)   | EPA 1640 | 111               | 110               | 1     | 0 - 30%             | PASS    |
| Cobalt (Co)     | EPA 1640 | 105               | 105               | 0     | 0 - 30%             | PASS    |
| Copper (Cu)     | EPA 1640 | 85                | 88                | 3     | 0 - 30%             | PASS    |
| Iron (Fe)       | EPA 1640 | 85                | 84                | 9     | 0 - 30%             | PASS    |
| Lead (Pb)       | EPA 1640 | 93                | 84                | 1     | 0 - 30%             | PASS    |
| Manganese (Mn)  | EPA 1640 | 87                | 84                | 4     | 0 - 30%             | PASS    |
| Mercury (Hg)    | EPA 1640 | 58                | 117               | 28    | 0 - 30%             | PASS    |
| Molybdenum (Mo) | EPA 1640 | 84                | 87                | 4     | 0 - 30%             | PASS    |
| Nickel (Ni)     | EPA 1640 | 86                | 99                | 3     | 0 - 30%             | PASS    |
| Selenium (Se)   | EPA 1640 | 81                | 85                | 5     | 0 - 30%             | PASS    |
| Silver (Ag)     | EPA 1640 | 110               | 102               | 6     | 0 - 30%             | PASS    |
| Thallium (Tl)   | EPA 1640 | 74                | 75                | 3     | 0 - 30%             | PASS    |
| Tin (Sn)        | EPA 1640 | 90                | 95                | 5     | 0 - 30%             | PASS    |
| Titanium (Ti)   | EPA 1640 | 120               | 120               | 0     | 0 - 30%             | PASS    |
| Zinc (Zn)       | EPA 1640 | 79                | 80                | 1     | 0 - 30%             | PASS    |

MDL - Method Detection Limit (µg/L or µg/g) as Part 1361, 1361 - Minimum Limit (SWRCB); 1 - Estimated Value Below the RL and above the MDL; ND - Not Detected; N/A - Not Applicable.

California ELAP Certificate # 1261  
19287

## **CHAIN OF CUSTODY**



**REGISTRATION:**  
 Power Evaluation Chemical  
 Southern Edison Building  
 1301 Riverside Avenue, 2nd Floor  
 Westborough, CA 93601

**INVOICE TO:**  
 Southern California Edison  
 Accounts Payable Division  
 P.O. Box 700  
 Rosemead, CA 91074

**SAMPLE ANALYSIS MEMORANDUM TO:**

CHG Marine Laboratories, Inc.  
 2020 Del Amo Blvd., Suite 200  
 Torrance, CA 90503

Southern Calif. Edison P.O. Number:  
 Please return and direct inquiries to:  
 In all correspondence refer to project:

V2024949, Release A001  
 Shawn Simmons  
 04121

SCK Accounting: 1220-61584-077,097  
 Tel: (714) 895-0525 Fax: (714) 895-0515  
 Email: shawn.simmons@scs.com

Sample(s) are submitted for treatment/digestion as described below.

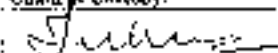

| Sample ID                   | Date Collected | Time Collected | Description/Analysis                    |
|-----------------------------|----------------|----------------|---|
| Units 1&2 Intake Composite  | 8/9/04         | 8/10/04        | Trace Metals in Seawater by Method 1641 |
| Units 1&2 Outfall Composite | 8/9/04         | 8/10/04        | Trace Metals in Seawater by Method 1641 |
| Units 3&4 Intake Composite  | 8/9/04         | 8/10/04        | Trace Metals in Seawater by Method 1641 |
| Units 3&4 Outfall Composite | 8/9/04         | 8/10/04        | Trace Metals in Seawater by Method 1641 |
|                             |                |                |   |
|                             |                |                |   |
|                             |                |                |   |
|                             |                |                |   |
|                             |                |                |   |
|                             |                |                |   |
|                             |                |                |   |
|                             |                |                |   |

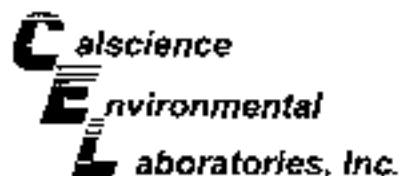
**Special Instructions:**

See attachment for priority pollutant metals needed.

Please analyze metals (Sb, As, Hg, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, and Zn) by Monday, August 23.

**Chain of Custody:**

|   |                            |   |                             |
|---|----------------------------|---|-----------------------------|
| <br>Requested By | Date: 8-9-04<br>Time: 1430 | <br>Received By | Date: 8/10/04<br>Time: 1430 |
|   |                            |   |                             |
|   |                            |   |                             |
|   |                            |   |                             |



August 31, 2004

Shawn Simmons  
Southern California Edison  
Material Testing Laboratory  
7351 Fenwick Lane  
Westminster, CA 92683

Subject: **CalScience Work Order No.: 04-08-0549**  
**Client Reference: 04121**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/11/2004 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

CalScience Environmental  
Laboratories, Inc.  
Paul Mead  
Project Manager

**Analytical Report**

Southern California Edison  
Maternal Testing Laboratory  
7351 Fenwick Lane  
Westminster, CA 92683

Date Received: 08/11/04  
Work Order No. 04-08-0549  
Preparation: EPA 3520B  
Method: EPA 8081A/8082  
Units: ug/L

Project: 04121

Page 1 of 3

| Client Sample Number | Lab Sample Number | Date Collected | Matrix  | Date Prepared | Date Analyzed | OC Batch ID |
|----------------------|-------------------|----------------|---------|---------------|---------------|-------------|
| 1B2 Intake Composite | 04-08-0549-37     | 08/10/04       | Aqueous | 08/11/04      | 08/13/04      | 040811L10   |

| Parameter          | Result  | RL             | DE | Qual | Parameter                    | Result  | RL             | DE | Qual |
|--------------------|---------|----------------|----|------|------------------------------|---------|----------------|----|------|
| Alpha-BHC          | ND      | 0.10           | -  |      | 4,4'-DDE                     | ND      | 0.10           | 1  |      |
| Gamma-BHC          | ND      | 0.10           | -  |      | Endosulfan Sulfate           | ND      | 0.10           | 1  |      |
| Beta-BHC           | ND      | 0.10           | -  |      | Methoxychlor                 | ND      | 0.10           | 1  |      |
| Heptachlor         | ND      | 0.10           | 1  |      | Chlorane                     | ND      | 1.0            | 1  |      |
| Delta-BHC          | ND      | 0.10           | 1  |      | Toxaphene                    | ND      | 2.0            | -  |      |
| Aldrin             | ND      | 0.10           | 1  |      | Endrin Ketone                | ND      | 0.10           | -  |      |
| Heptachlor Epoxide | ND      | 0.10           | 1  |      | Aroclor-1248                 | ND      | 1.0            | -  |      |
| Endosulfan         | ND      | 0.10           | 1  |      | Aroclor-1254                 | ND      | 1.0            | 1  |      |
| Dieldrin           | ND      | 0.10           | 1  |      | Aroclor-1260                 | ND      | 1.0            | 1  |      |
| 4,4'-DDE           | ND      | 0.10           | 1  |      | Aroclor-1262                 | ND      | 1.0            | 1  |      |
| Endrin             | ND      | 0.10           | 1  |      | Aroclor-1267                 | ND      | 1.0            | 1  |      |
| Endrin Aldehyde    | ND      | 0.10           | -  |      |                              |         |                |    |      |
| 4,4'-DDD           | ND      | 0.10           | -  |      |                              |         |                |    |      |
| Endosulfan II      | ND      | 0.10           | -  |      |                              |         |                |    |      |
| Surrogates         | REC (%) | Control Limits |    | Qual | Surrogates                   | REC (%) | Control Limits |    | Qual |
| Decachlorobiphenyl | 65      | 50-135         |    |      | 2,4,5,6-Tetrachloro-m-Xylene | 79      | 50-135         |    |      |

| Client Sample Number  | Lab Sample Number | Date Collected | Matrix  | Date Prepared | Date Analyzed | OC Batch ID |
|-----------------------|-------------------|----------------|---------|---------------|---------------|-------------|
| 1B2 Outfall Composite | 04-08-0549-38     | 08/10/04       | Aqueous | 08/11/04      | 08/13/04      | 040811L10   |

| Parameter          | Result  | RL             | DE | Qual | Parameter                    | Result  | RL             | DE | Qual |
|--------------------|---------|----------------|----|------|------------------------------|---------|----------------|----|------|
| Alpha-BHC          | ND      | 0.10           | 1  |      | 4,4'-DDE                     | ND      | 0.10           | 1  |      |
| Gamma-BHC          | ND      | 0.10           | 1  |      | Endosulfan Sulfate           | ND      | 0.10           | 1  |      |
| Beta-BHC           | ND      | 0.10           | 1  |      | Methoxychlor                 | ND      | 0.10           | 1  |      |
| Heptachlor         | ND      | 0.10           | 1  |      | Chlorane                     | ND      | 1.0            | 1  |      |
| Delta-BHC          | ND      | 0.10           | 1  |      | Toxaphene                    | ND      | 2.0            | 1  |      |
| Aldrin             | ND      | 0.10           | 1  |      | Endrin Ketone                | ND      | 0.10           | 1  |      |
| Heptachlor Epoxide | ND      | 0.10           | 1  |      | Aroclor-1218                 | ND      | 1.0            | 1  |      |
| Endosulfan         | ND      | 0.10           | 1  |      | Aroclor-1221                 | ND      | 1.0            | -  |      |
| Dieldrin           | ND      | 0.10           | 1  |      | Aroclor-1232                 | ND      | 1.0            | -  |      |
| 4,4'-DDE           | ND      | 0.10           | 1  |      | Aroclor-1242                 | ND      | 1.0            | -  |      |
| Endrin             | ND      | 0.10           | 1  |      | Aroclor-1248                 | ND      | 1.0            | 1  |      |
| Endrin Aldehyde    | ND      | 0.10           | -  |      | Aroclor-1254                 | ND      | 1.0            | 1  |      |
| 4,4'-DDD           | ND      | 0.10           | -  |      | Aroclor-1260                 | ND      | 1.0            | 1  |      |
| Endosulfan II      | ND      | 0.10           | -  |      | Aroclor-1262                 | ND      | 1.0            | 1  |      |
| Surrogates         | REC (%) | Control Limits |    | Qual | Surrogates                   | REC (%) | Control Limits |    | Qual |
| Decachlorobiphenyl | 65      | 50-135         |    |      | 2,4,5,6-Tetrachloro-m-Xylene | 82      | 50-135         |    |      |

RL - Reporting Limit    DE - Detection Factor    Qual - Qualifiers

**Analytical Report**

Southern California Edison  
Material Testing Laboratory  
7351 Fenwick Lane  
Westminster, CA 92683

Date Received: 08/11/04  
Work Order No: 04-08-0549  
Preparation: EPA 3520B  
Method: EPA 8081A/8082  
Units: ug/L

Project: 04121

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| Client Sample Number  | Lab Sample Number |                |    |      | Date Collected             | Matrix  | Date Prepared  | Date Analyzed | QC Batch ID |
|-----------------------|-------------------|----------------|----|------|----------------------------|---------|----------------|---------------|-------------|
| 354 Intake Composite  | 04-08-0549-39     |                |    |      | 08/10/04                   | Aqueous | 08/11/04       | 08/13/04      | 040811L10   |
| Parameter             | Result            | RL             | DF | Qual | Parameter                  | Result  | RL             | DF            | Qual        |
| Alpha-BHC             | ND                | 0.10           | -  |      | 4,4'-DDT                   | ND      | 0.10           | 1             |             |
| Gamma-BHC             | ND                | 0.10           | -  |      | Endosulfan Sulfate         | ND      | 0.10           | 1             |             |
| Beta-BHC              | ND                | 0.10           | -  |      | Methoxychlor               | ND      | 0.10           | 1             |             |
| Heptachlor            | ND                | 0.10           | -  |      | Chlordane                  | ND      | 1.0            | 1             |             |
| Delta-BHC             | ND                | 0.10           | 1  |      | Toxaphene                  | ND      | 2.0            | 1             |             |
| Aldrin                | ND                | 0.10           | 1  |      | Endrin Ketone              | ND      | 0.10           | 1             |             |
| Heptachlor Epoxide    | ND                | 0.10           | 1  |      | Aroclor 1216               | ND      | 1.0            | 1             |             |
| Endosulfan            | ND                | 0.10           | 1  |      | Aroclor 1221               | ND      | 1.0            | 1             |             |
| Dieldrin              | ND                | 0.10           | 1  |      | Aroclor 1232               | ND      | 1.0            | 1             |             |
| 4,4'-DDE              | ND                | 0.10           | 1  |      | Aroclor 1242               | ND      | 1.0            | 1             |             |
| Endrin                | ND                | 0.10           | 1  |      | Aroclor 1248               | ND      | 1.0            | 1             |             |
| Endrin Aldehyde       | ND                | 0.10           | 1  |      | Aroclor 1254               | ND      | 1.0            | 1             |             |
| 4,4'-DDD              | ND                | 0.10           | 1  |      | Aroclor 1260               | ND      | 1.0            | 1             |             |
| Endosulfan II         | ND                | 0.10           | 1  |      | Aroclor 1262               | ND      | 1.0            | 1             |             |
| Surrogates:           | REC (%)           | Control Limits |    | Qual | Surrogates:                | REC (%) | Control Limits |               | Qual        |
| Decachlorobiphenyl    | 55                | 50-135         |    |      | 2,4,6-Trichlorobrom-Xylene | 78      | 50-135         |               |             |
| 354 Outfall Composite | 04-08-0549-40     |                |    |      | 08/10/04                   | Aqueous | 08/11/04       | 08/13/04      | 040811L10   |
| Parameter             | Result            | RL             | DF | Qual | Parameter                  | Result  | RL             | DF            | Qual        |
| Alpha-BHC             | ND                | 0.10           | 1  |      | 4,4'-DDT                   | ND      | 0.10           | 1             |             |
| Gamma-BHC             | ND                | 0.10           | 1  |      | Endosulfan Sulfate         | ND      | 0.10           | 1             |             |
| Beta-BHC              | ND                | 0.10           | 1  |      | Methoxychlor               | ND      | 0.10           | 1             |             |
| Heptachlor            | ND                | 0.10           | -  |      | Chlordane                  | ND      | 1.0            | 1             |             |
| Delta-BHC             | ND                | 0.10           | -  |      | Toxaphene                  | ND      | 2.0            | 1             |             |
| Aldrin                | ND                | 0.10           | -  |      | Endrin Ketone              | ND      | 0.10           | 1             |             |
| Heptachlor Epoxide    | ND                | 0.10           | -  |      | Aroclor 1216               | ND      | 1.0            | 1             |             |
| Endosulfan I          | ND                | 0.10           | -  |      | Aroclor 1221               | ND      | 1.0            | 1             |             |
| Dieldrin              | ND                | 0.10           | 1  |      | Aroclor 1232               | ND      | 1.0            | 1             |             |
| 4,4'-DDE              | ND                | 0.10           | 1  |      | Aroclor 1242               | ND      | 1.0            | 1             |             |
| Endrin                | ND                | 0.10           | 1  |      | Aroclor 1248               | ND      | 1.0            | 1             |             |
| Endrin Aldehyde       | ND                | 0.10           | 1  |      | Aroclor 1254               | ND      | 1.0            | 1             |             |
| 4,4'-DDD              | ND                | 0.10           | 1  |      | Aroclor 1260               | ND      | 1.0            | 1             |             |
| Endosulfan II         | ND                | 0.10           | 1  |      | Aroclor 1262               | ND      | 1.0            | 1             |             |
| Surrogates:           | REC (%)           | Control Limits |    | Qual | Surrogates:                | REC (%) | Control Limits |               | Qual        |
| Decachlorobiphenyl    | 48                | 50-135         |    | 2    | 2,4,6-Trichlorobrom-Xylene | 78      | 50-135         |               |             |

RL - Reporting Limit    DF - Dilution Factor    Qual - Qualifier

**Analytical Report**

Southern California Edison  
Material Testing Laboratory  
7351 Fenwick Lane  
Westminster, CA 92683

Date Received: 08/11/04  
Work Order No: 04-08-0549  
Preparation: EPA 3520B  
Method: EPA 8081A/8082  
Units: ug/L

Project: 04121

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| Client Sample Number | Lab Sample Number | Date Collected | Matrix  | Date Prepared | Date Analyzed                | GC Retch ID |         |    |      |
|----------------------|-------------------|----------------|---------|---------------|------------------------------|-------------|---------|----|------|
| Method Blank         | 085-01-015-1,278  | N/A            | Aqueous | 08/11/04      | 08/13/04                     | 040811L10   |         |    |      |
| Parameter            | Result            | RL             | DF      | Qual          | Parameter                    | Result      | RL      | DF | Qual |
| Alpha-BHC            | ND                | 0.10           | 1       |               | 4,4'-DDT                     | ND          | 0.10    | 1  |      |
| Gamma-BHC            | ND                | 0.10           | 1       |               | Endosulfen Sulfate           | ND          | 0.10    | 1  |      |
| Beta-BHC             | ND                | 0.10           | 1       |               | Methoxychlor                 | ND          | 0.10    | 1  |      |
| Heptachlor           | ND                | 0.10           | 1       |               | Chlordane                    | ND          | 1.0     | 1  |      |
| Delta-BHC            | ND                | 0.10           | 1       |               | Toxaphene                    | ND          | 2.0     | 1  |      |
| Aldrin               | ND                | 0.10           | 1       |               | Endrin Ketone                | ND          | 0.10    | 1  |      |
| Heptachlor Epoxide   | ND                | 0.10           | 1       |               | Aroclor 1216                 | ND          | 1.0     | 1  |      |
| Endosulfan I         | ND                | 0.10           | 1       |               | Aroclor 1221                 | ND          | 1.0     | 1  |      |
| Dieldrin             | ND                | 0.10           | 1       |               | Aroclor 1237                 | ND          | 1.0     | 1  |      |
| 4,4'-DDE             | ND                | 0.10           | 1       |               | Aroclor 1242                 | ND          | 1.0     | 1  |      |
| Endrin               | ND                | 0.10           | 1       |               | Aroclor 1248                 | ND          | 1.0     | 1  |      |
| Endrin Aldehyde      | ND                | 0.10           | 1       |               | Aroclor 1254                 | ND          | 1.0     | 1  |      |
| 4,4'-DDD             | ND                | 0.10           | 1       |               | Aroclor 1260                 | ND          | 1.0     | 1  |      |
| Endosulfan II        | ND                | 0.10           | 1       |               | Aroclor 1262                 | ND          | 1.0     | 1  |      |
| Surrogates           | REC (%)           | Control        |         | Qual          | Surrogates                   | REC (%)     | Control |    | Qual |
| Dechlorobiphenyl     | 51                | 50-135         |         |               | 2,4,5,8-Tetrachloro m-Xylene | 73          | 50-135  |    |      |

RL - Reporting Limit, DF - Detection Factor, Qual - Qualifiers

**Analytical Report**

Southern California Edison  
Material Testing Laboratory  
7351 Fenwick Lane  
Westminster, CA 92683

Date Received: 08/11/04  
Work Order No: 04-08-0549

Project: 04121

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| Client Sample Number | Lab Sample Number | Date Collected | Matrix  |
|----------------------|-------------------|----------------|---------|
| 1&2 Intake           | 04-08-0549-1      | 08/09/04       | Aqueous |

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 420.1 |

|             |              |          |         |
|-------------|--------------|----------|---------|
| 1&2 Outfall | 04-08-0549-2 | 08/09/04 | Aqueous |
|-------------|--------------|----------|---------|

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|            |              |          |         |
|------------|--------------|----------|---------|
| 3&4 Intake | 04-08-0549-3 | 08/09/04 | Aqueous |
|------------|--------------|----------|---------|

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 420.1 |

|             |              |          |         |
|-------------|--------------|----------|---------|
| 3&4 Outfall | 04-08-0549-4 | 08/09/04 | Aqueous |
|-------------|--------------|----------|---------|

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|            |              |          |         |
|------------|--------------|----------|---------|
| 1&2 Intake | 04-08-0549-5 | 08/09/04 | Aqueous |
|------------|--------------|----------|---------|

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

**Analytical Report**

Southern California Edison  
Material Testing Laboratory  
7351 Fernwink Lane  
Westminster, CA 92683

Date Received: 08/11/04  
Work Order No: 04-08-0519

Project: 04121

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| Client Sample Number | Lab Sample Number | Date Collected | Matrix  |
|----------------------|-------------------|----------------|---------|
| 1&2 Outfall          | 04-08-0548-6      | 08/09/04       | Aqueous |

| Parameter        | Result | RL    | DE | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|            |              |          |         |
|------------|--------------|----------|---------|
| 3&4 Intake | 04-08-0548-7 | 08/09/04 | Aqueous |
|------------|--------------|----------|---------|

| Parameter        | Result | RL    | DE | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|             |              |          |         |
|-------------|--------------|----------|---------|
| 3&4 Outfall | 04-08-0548-8 | 08/09/04 | Aqueous |
|-------------|--------------|----------|---------|

| Parameter        | Result | RL    | DE | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|            |              |          |         |
|------------|--------------|----------|---------|
| 1&2 Intake | 04-08-0548-9 | 08/09/04 | Aqueous |
|------------|--------------|----------|---------|

| Parameter        | Result | RL    | DE | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|             |               |          |         |
|-------------|---------------|----------|---------|
| 1&2 Outfall | 04-08-0548-10 | 08/09/04 | Aqueous |
|-------------|---------------|----------|---------|

| Parameter        | Result | RL    | DE | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

RL - Reporting Limit DE - Dilution Factor Qual - Quarters

**Analytical Report**

Southern California Edison  
Material Testing Laboratory  
7351 Fenwick Lane  
Westminster, CA 92683

Date Received: 08/11/04  
Work Order No: 04-08-0549

Project: 04121

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| Client Sample Number | Lab Sample Number | Date Collected | Matrix  |
|----------------------|-------------------|----------------|---------|
| 3&4 Intake           | 04-08-0549-11     | 08/09/04       | Aqueous |

| Parameter        | Result | RL    | UF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.060 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 336.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|             |               |          |         |
|-------------|---------------|----------|---------|
| 3&4 Outfall | 04-08-0549-12 | 08/09/04 | Aqueous |
|-------------|---------------|----------|---------|

| Parameter        | Result | RL    | UF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.060 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 336.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|            |               |          |         |
|------------|---------------|----------|---------|
| 1&2 Intake | 04-08-0549-13 | 08/09/04 | Aqueous |
|------------|---------------|----------|---------|

| Parameter        | Result | RL    | UF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 336.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|             |               |          |         |
|-------------|---------------|----------|---------|
| 1&2 Outfall | 04-08-0549-14 | 08/10/04 | Aqueous |
|-------------|---------------|----------|---------|

| Parameter        | Result | RL    | UF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 336.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|            |               |          |         |
|------------|---------------|----------|---------|
| 3&4 Intake | 04-08-0549-15 | 08/09/04 | Aqueous |
|------------|---------------|----------|---------|

| Parameter        | Result | RL    | UF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 336.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

RL - Reporting Limit    UF - Dilution Factor    Qual - Qualities

**Analytical Report**

Southern California Edison  
 Material Testing Laboratory  
 7351 Fenwick Lane  
 Westminster, CA 92683

Date Received: 08/11/04  
 Work Order No: 04-08-0549

Project: 04121

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| Client Sample Number | Lab Sample Number | Date Collected | Matrix  |
|----------------------|-------------------|----------------|---------|
| 384 Outfall          | 04-08-0549-16     | 08/09/04       | Aqueous |

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.355 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|            |               |          |         |
|------------|---------------|----------|---------|
| 182 Intake | 04-08-0549-17 | 08/10/04 | Aqueous |
|------------|---------------|----------|---------|

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|             |               |          |         |
|-------------|---------------|----------|---------|
| 182 Outfall | 04-08-0549-18 | 08/10/04 | Aqueous |
|-------------|---------------|----------|---------|

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|            |               |          |         |
|------------|---------------|----------|---------|
| 384 Intake | 04-08-0549-19 | 08/10/04 | Aqueous |
|------------|---------------|----------|---------|

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|             |               |          |         |
|-------------|---------------|----------|---------|
| 384 Outfall | 04-08-0549-20 | 08/10/04 | Aqueous |
|-------------|---------------|----------|---------|

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

RL - Reporting Limit DF - Duplication Factor Qual - Qualifiers



**Analytical Report**

Southern California Edison  
Material Testing Laboratory  
7351 Fenwick Lane  
Westminster, CA 92683

Date Received: 08/11/04  
Work Order No: 04-08-0549

Project: 04121

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| Client Sample Number | Lab Sample Number | Date Collected | Matrix  |
|----------------------|-------------------|----------------|---------|
| 1&2 Intake           | 04-08-0549-21     | 08/10/04       | Aqueous |

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/17/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|             |               |          |         |
|-------------|---------------|----------|---------|
| 1&2 Outfall | 04-08-0549-22 | 08/10/04 | Aqueous |
|-------------|---------------|----------|---------|

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/17/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|            |               |          |         |
|------------|---------------|----------|---------|
| 3&4 Intake | 04-08-0549-23 | 08/10/04 | Aqueous |
|------------|---------------|----------|---------|

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/17/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|             |               |          |         |
|-------------|---------------|----------|---------|
| 3&4 Outfall | 04-08-0549-24 | 08/10/04 | Aqueous |
|-------------|---------------|----------|---------|

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/17/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|            |               |          |         |
|------------|---------------|----------|---------|
| 1&2 Intake | 04-08-0549-25 | 08/10/04 | Aqueous |
|------------|---------------|----------|---------|

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/17/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

RL - Reporting Limit      DF - Dilution Factor      Qual - Qualifiers



**Analytical Report**

Southern California Edison  
Material Testing Laboratory  
7351 Fenwick Lane  
Westminster, CA 92683

Date Received: 08/11/04  
Work Order No: 04-08-0549

Project: 04121

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| Client Sample Number | Lab Sample Number | Date Collected | Matrix  |
|----------------------|-------------------|----------------|---------|
| 1&2 Outfall          | 04-08-0549-26     | 08/10/04       | Aqueous |

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/17/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|            |               |          |         |
|------------|---------------|----------|---------|
| 3&4 Intake | 04-08-0549-27 | 08/10/04 | Aqueous |
|------------|---------------|----------|---------|

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/17/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|             |               |          |         |
|-------------|---------------|----------|---------|
| 3&4 Outfall | 04-08-0549-28 | 08/10/04 | Aqueous |
|-------------|---------------|----------|---------|

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/17/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|            |               |          |         |
|------------|---------------|----------|---------|
| 1&2 Intake | 04-08-0549-29 | 08/10/04 | Aqueous |
|------------|---------------|----------|---------|

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/17/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

|             |               |          |         |
|-------------|---------------|----------|---------|
| 1&2 Outfall | 04-08-0549-30 | 08/10/04 | Aqueous |
|-------------|---------------|----------|---------|

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/17/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/12/04      | EPA 420.1 |

RL - Reporting Limit      DF - Detection Factor      Qual - Confidence



**Analytical Report**

Southern California Edison  
Material Testing Laboratory  
7351 Fenwick Lane  
Westminster, CA 92683

Date Received: 08/11/04  
Work Order No: 04-08-0549

Project: 04121

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| Client Sample Number | Lab Sample Number | Date Collected | Matrix  |
|----------------------|-------------------|----------------|---------|
| 3&4 Intake           | 04-08-0549-31     | 08/10/04       | Aqueous |

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.355 | 1  |      | mg/L  | N/A           | 08/17/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.13  | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 420.1 |

|             |               |          |         |
|-------------|---------------|----------|---------|
| 3&4 Outfall | 04-08-0549-32 | 08/10/04 | Aqueous |
|-------------|---------------|----------|---------|

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/17/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 420.1 |

|            |               |          |         |
|------------|---------------|----------|---------|
| 1&2 Intake | 04-08-0549-33 | 08/10/04 | Aqueous |
|------------|---------------|----------|---------|

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/17/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 420.1 |

|             |               |          |         |
|-------------|---------------|----------|---------|
| 1&2 Outfall | 04-08-0549-34 | 08/10/04 | Aqueous |
|-------------|---------------|----------|---------|

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/17/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 420.1 |

|            |               |          |         |
|------------|---------------|----------|---------|
| 3&4 Intake | 04-08-0549-35 | 08/10/04 | Aqueous |
|------------|---------------|----------|---------|

| Parameter        | Result | RL    | DF | Qual | Units | Date Prepared | Date Analyzed | Method    |
|------------------|--------|-------|----|------|-------|---------------|---------------|-----------|
| Cyanide, Total   | ND     | 0.050 | 1  |      | mg/L  | N/A           | 08/17/04      | EPA 335.2 |
| Phenolics, Total | ND     | 0.10  | 1  |      | mg/L  | N/A           | 08/13/04      | EPA 420.1 |

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

***Section 6.0***  
***EPA Form 2C***  
***Appendix C***  
***Business Owner/Operation Identification Manual***

**UNIFIED PROGRAM CONSOLIDATED FORM**  
**BUSINESS OWNER/OPERATOR IDENTIFICATION**

☐ NEW BUSINESS ☐ OUT OF BUSINESS ☐ REVIS/UPDATE ☐ RETIRE

PAGE 1 OF 1

**I. IDENTIFICATION**

|   |             |                       |                |     |                         |       |
|---|-------------|-----------------------|----------------|-----|-------------------------|-------|
| FACILITY ID#  |             | 1 9 0 1 3 3 0 0 0 1 1 | BEGINNING DATE | 100 | ENDING DATE             | 101   |
| BUSINESS NAME (Same as FACILITY NAME if DBA - Using Previous Act) |             |                       |                |     | BUSINESS PHONE          |       |
| EL SEGUNDO POWER, LLC   |             |                       |                |     | (310) 615-6028          |       |
| BUSINESS SITE ADDRESS   |             |                       |                |     |                         |       |
| 301 VISTA DEL MAR   |             |                       |                |     |                         |       |
| CITY  | EL SEGUNDO  |                       |                | 102 | CA                      | 103   |
| DUN & BRAD STREET   | 19-723-6187 |                       |                | 104 | ZIP CODE                | 90245 |
| COUNTY  | LOS ANGELES |                       |                | 105 | SIC CODE (4 digit #)    | 4911  |
| BUSINESS OPERATOR NAME  |             |                       |                | 106 | BUSINESS OPERATOR PHONE |       |
| EL SEGUNDO OPERATIONS, INC.                                       |             |                       |                | 107 | (310) 615-6028          |       |

**II. BUSINESS OWNER**

|                       |            |     |                |       |    |     |
|-----------------------|------------|-----|----------------|-------|----|-----|
| OWNER NAME            |            | 108 | OWNER PHONE    | 109   |    |     |
| EL SEGUNDO POWER, LLC |            | 110 | (310) 615-6028 | 111   |    |     |
| OWNER MAILING ADDRESS |            |     |                |       |    |     |
| 301 VISTA DEL MAR     |            |     |                |       |    |     |
| CITY                  | EL SEGUNDO |     | 112            | STATE | CA | 113 |
|                       |            | 114 | ZIP CODE       | 90245 |    | 115 |

**III. ENVIRONMENTAL CONTACT**

|                               |            |     |                               |       |    |     |
|-------------------------------|------------|-----|-------------------------------|-------|----|-----|
| CONTACT NAME                  |            | 116 | CONTACT PHONE                 | 117   |    |     |
| ALEX SANCHEZ/STEVE ODABASHIAN |            | 118 | (310) 615-6351/(310) 615-6331 | 119   |    |     |
| CONTACT MAILING ADDRESS       |            |     |                               |       |    |     |
| 301 VISTA DEL MAR             |            |     |                               |       |    |     |
| CITY                          | EL SEGUNDO |     | 120                           | STATE | CA | 121 |
|                               |            | 122 | ZIP CODE                      | 90245 |    | 123 |

**IV. EMERGENCY CONTACTS**

|                  |  |     |                               |     |
|------------------|--|-----|-------------------------------|-----|
| NAME             |  | 124 | NAME                          | 125 |
| VARIOUS          |  | 126 | ALEX SANCHEZ/STEVE ODABASHIAN | 127 |
| TITLE            |  | 128 | TITLE                         | 129 |
| SHIFT SUPERVISOR |  | 130 | ENVIRONMENTAL SUPERVISOR      | 131 |
| BUSINESS PHONE   |  | 132 | BUSINESS PHONE                | 133 |
| (310) 615-6313   |  | 134 | (310) 615-6351 OR 615-6331    | 135 |
| 24 HOUR PHONE    |  | 136 | 24 HOUR PHONE                 | 137 |
| (310) 615-6313   |  | 138 | (310) 529-3280 OR 529-3281    | 139 |
| PAGER #          |  | 140 | PAGER #                       | 141 |
| N/A              |  | 142 | N/A                           | 143 |

**V. ADDITIONAL LOCALLY COLLECTED INFORMATION**

|                     |    |     |                                   |             |     |
|---------------------|----|-----|-----------------------------------|-------------|-----|
| NUMBER OF EMPLOYEES | 36 | 144 | FEDERAL TAX IDENTIFICATION NUMBER | 41-192 9887 | 145 |
|---------------------|----|-----|-----------------------------------|-------------|-----|

**MAILING/ BILLING INFORMATION**

|                   |     |            |     |       |     |          |     |
|-------------------|-----|------------|-----|-------|-----|----------|-----|
| ADDRESS           | 146 | CITY       | 147 | STATE | 148 | ZIP CODE | 149 |
| 301 VISTA DEL MAR | 150 | EL SEGUNDO | 151 | CA    | 152 | 90245    | 153 |

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

|  |  |     |                           |     |
|--|--|-----|---------------------------|-----|
| SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE                           |  | 154 | NAME OF DOCUMENT PREPARER | 155 |
|  |  | 156 | ALEX SANCHEZ              | 157 |
| NAME OF SIGNER (Print)   |  | 158 | TITLE OF SIGNER           | 159 |
| ALEX AABERG  |  | 160 | REGIONAL PLANTS MANAGER   | 161 |

|                   |          |               |    |          |           |     |         |    |      |    |
|-------------------|----------|---------------|----|----------|-----------|-----|---------|----|------|----|
| OFFICIAL USE ONLY |          | JCF           | HW | HM       | ARP       | AST | USI     | JP | CUPA | PA |
| INSPECTOR         | DISTRICT | DATE OF INSP. |    | DIVISION | BATTALION |     | STATION |    |      |    |

# UNIFIED PROGRAM CONSOLIDATED FORM

## BUSINESS ACTIVITIES

Page 1 of 1

### I. FACILITY IDENTIFICATION

|   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FACILITY ID #   | 1 | 9 | 0 | 1 | 3 | 3 | 0 | 0 | 0 | 1 | 1 |
| BUSINESS NAME (Same as Facility Name of DBA: Doing Business As) |   |   |   |   |   |   |   |   |   |   |   |
| EPA ID # (Hazardous Waste Only)<br>CAR 000036848                |   |   |   |   |   |   |   |   |   |   |   |

EL SEGUNDO POWER, LLC, 301 VISTA DEL MAR, EL SEGUNDO, CA 90245

### II. ACTIVITIES DECLARATION

NOTE: If you check YES to any part of this list,  
please submit the Business Owner/Operator Identification page.

Does your facility...

If Yes, please complete these pages of the UPCF...

#### A. HAZARDOUS MATERIALS

Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs), or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?

(X) YES ☐ NO 4

4 HAZARDOUS MATERIALS INVENTORY  
4 CHEMICAL DESCRIPTION  
4 CONSOLIDATED CONTINGENCY PLAN  
(Section I and Site Map(s))  
4 TRAINING PLAN

#### B. UNDERGROUND STORAGE TANKS (USTs)

1. Own or operate underground storage tanks?

(X) YES ☐ NO 5

4 UST FACILITY

2. Intend to upgrade existing or install new USTs?

☐ YES (X) NO 6

4 UST TANK (one page per tank)

4 UST FACILITY

3. Need to report closing a UST?

☐ YES (X) NO 7

4 UST TANK (one page per tank)  
4 UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank)  
4 UST TANK (one page per tank)

#### C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs)

Own or operate ASTs above these thresholds:

any tank capacity is greater than 560 gallons, or

the total capacity for the facility is greater than 7,000 gallons?

(X) YES ☐ NO 8

NO FORM REQUIRED TO CUPAs

#### D. HAZARDOUS WASTE

1. Generate hazardous waste?

(X) YES ☐ NO 9

4 EPA ID NUMBER - provide at the top of this page.

4 As a generator, answer YES to Item E2b and complete Waste Generator Form

2. Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?

☐ YES (X) NO 10

4 RECYCLABLE MATERIALS REPORT

3. Treat hazardous waste on site?

☐ YES (X) NO 11

4 ONSITE HAZARDOUS WASTE TREATMENT - FACILITY

4. Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?

☐ YES (X) NO 12

4 ONSITE HAZARDOUS WASTE TREATMENT - UNIT (one page per unit)

5. Consolidate hazardous waste generated at a remote site?

☐ YES (X) NO 13

4 CERTIFICATION OF FINANCIAL ASSURANCE

6. Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite?

☐ YES (X) NO 14

4 REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION

4 HAZARDOUS WASTE TANK CLOSURE CERTIFICATION

#### E. LOCAL REQUIREMENTS

##### 1. REGULATED SUBSTANCES

Have Regulated Substances (RS) including Extremely Hazardous Substances (EHS) stored on site at greater than the threshold planning quantities established by the California Accidental Release Program (CalARP)?

(X) YES ☐ NO 15a

In addition to Hazardous Materials requirements, complete:

4 Regulated Substance Registrar  
4 Risk Management Plan (when required)

##### 2. OTHER REQUIREMENTS

a. Have hazardous materials stored on site at or above a threshold amount established by a CLUPA or PA's local ordinance?

☐ YES (X) NO 15b

4 Consult local CLUPA or PA for codes reporting requirements.

b. Required by a CLUPA or PA to provide other information?

(X) YES ☐ NO 15c

4 Waste Generator Form (LA County)

|                  |      |    |    |     |     |     |    |      |    |
|------------------|------|----|----|-----|-----|-----|----|------|----|
| SPECIAL USE ONLY | UPCF | HW | RM | ARP | AST | UST | TP | CUPA | PA |
|------------------|------|----|----|-----|-----|-----|----|------|----|

# Unified Program (UP) Form CONSOLIDATED CONTINGENCY PLAN

## I. FACILITY IDENTIFICATION

|                       |     |            |                 |          |     |
|-----------------------|-----|------------|-----------------|----------|-----|
| BUSINESS NAME         |     | 3          | FACILITY ID # 1 |          |     |
| EL SEGUNDO POWER, LLC |     |            | 19013300011     |          |     |
| SITE ADDRESS          | 103 | CITY       | 104             | ZIP CODE | 105 |
| 301 VISTA DEL MAR     |     | EL SEGUNDO |                 | 90245    |     |

The Consolidated Contingency Plan provides businesses a format to comply with the emergency planning requirements of the following three written hazardous materials emergency response plans required in California.

- ☐ Hazardous Materials Business Plan (HMBP Chapter 8.95 Section 25504 (b) and 19 CCR Sections 2729-2732),
- ☐ Hazardous Waste Generator Contingency Plan (22 CCR Section 60264.52), and,
- ☐ Underground Storage Tank Emergency Response Plan and Monitoring Program (23 CCR Sections 2832 and 2641).

This site-specific Contingency Plan is the facility's plan for dealing with emergencies and shall be implemented immediately whenever there is a fire, explosion, or release of hazardous materials which could threaten human health and/or the environment. The contingency plan shall be reviewed, and immediately amended, if necessary, whenever:

- ☐ the plan fails in an emergency,
- ☐ the facility changes in its design, construction, operation, maintenance, or other circumstances in a way that materially increases the potential for fires, explosions, or releases of hazardous waste or hazardous waste constituents, or changes the response necessary in an emergency,
- ☐ the list of emergency coordinators changes, or
- ☐ the list of emergency equipment changes.

This format is designed to minimize duplication in the preparation and use of emergency response plans at the same facility, and to improve the coordination between facility response personnel and local, state and federal emergency responders during an emergency. Use the chart below to determine which sections of the Consolidated Contingency Plan need to be completed for your facility. If you are unsure as to which programs your facility is subject to, refer to the Business Activities Page.

| PROGRAMS                                 | SECTION(S) TO BE COMPLETED                     |
|--|--|
| Hazardous Materials Business Plan (HMBP) | Cover Page, Section I, and Site Map(s)         |
| Hazardous Waste Generator (HWG)          | Cover Page, Section I, and Site Map(s)         |
| Underground Storage Tank (UST)           | Cover Page, Sections I and II, and Site Map(s) |
| HMBP, HWG, UST                           | Cover Page, Sections I and II, and Site Map(s) |

A copy of the plan shall be submitted to your local CUPA and at least one copy of the plan shall be maintained at the facility for use in the event of an emergency and for inspection by the local agency. Describe below where a copy of your Contingency Plan, including the hazardous material inventories and Site Map(s), is located at your business:

**ALL COPIES ARE FILED IN THE SHIFT SUPERVISORS OFFICE AND PLANT ADMINISTRATIVE FILES LOCATED AT THE FRONT OF THE BUILDING.**

We appreciate the effort of local businesses in completing these plans and will assist in every possible way. If you have any questions, please contact your local CUPA or PA.

**Unified Program (UP) Form  
CONSOLIDATED CONTINGENCY PLAN**

**SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN**

**I. FACILITY IDENTIFICATION**

|   |  |                               |                                      |
|---|--|-------------------------------|--------------------------------------|
| BUSINESS NAME<br><b>EL SEGUNDO POWER, LLC</b> |  | 3                             | FACILITY ID #1<br><b>19013300011</b> |
| SITE ADDRESS<br><b>301 VISTA DEL MAR</b>      |  | 103 CITY<br><b>EL SEGUNDO</b> | 104 ZIP CODE<br><b>90245</b>         |

**II. EMERGENCY CONTACTS**

| PRIMARY                                 |     | SECONDARY  |     |
|---|-----|--|-----|
| NAME<br><b>VARIOUS</b>                  | 123 | NAME<br><b>ALEX SANCHEZ/STEVE ODABASHIAN</b>           | 128 |
| TITLE<br><b>SHIFT SUPERVISOR</b>        | 124 | TITLE<br><b>ENVIRONMENTAL SUPERVISOR</b>               | 129 |
| BUSINESS PHONE<br><b>(310) 615-6313</b> | 125 | BUSINESS PHONE<br><b>(310) 615-6351/(310) 615-6331</b> | 130 |
| 24-HOUR PHONE<br><b>(310) 615-6313</b>  | 126 | 24-HOUR PHONE<br><b>(310) 529-3280/(310) 529-3281</b>  | 131 |
| PAGER #<br><b>N/A</b>                   | 127 | PAGER #<br><b>N/A</b>                                  | 132 |

**III. EMERGENCY RESPONSE PLANS AND PROCEDURES**

**A. Notifications**

Your business is required by State Law to provide an immediate verbal report of any release or threatened release of a hazardous material to local fire emergency response personnel, this Unified Program Agency (CUPA or PA), and the Office of Emergency Services. If you have a release or threatened release of hazardous materials, immediately call:  
FIRE/PARAMEDICS/POLICE/SHERIFF  
PHONE: 911

AFTER the local emergency response personnel are notified, you shall then notify this Unified Program Agency and the Office of Emergency Services:

Local Unified Program Agency: **(310) 524 - 2242**  
State Office of Emergency Service: **(800) 852-7550 or (916) 262-1621**  
National Response Center: **(800) 424-8802**

**Information to be provided during Notification:**

- ☐ Your Name and the Telephone Number from where you are calling
- ☐ Exact address of the release or threatened release.
- ☐ Date, time, cause, and type of incident (e.g. fire, air release, spill, etc.)
- ☐ Material and quantity of the release, to the extent known
- ☐ Current condition of the facility.
- ☐ Extent of injuries, if any
- ☐ Possible hazards to public health and/or the environment outside of the facility.

**B. Emergency Medical Facility**

List the local emergency medical facility that will be used by your business in the event of an accident or injury caused by a release or threatened release of hazardous material:

|   |                                  |
|---|----------------------------------|
| HOSPITAL CLINIC:<br><b>RFK MEDICAL CENTER</b>                   | PHONE NO:<br><b>310-973-1711</b> |
| ADDRESS:<br><b>4500 WEST 116<sup>TH</sup> STREET, HAWTHORNE</b> |                                  |
| STATE:<br><b>CA</b>   | ZIP CODE<br><b>90250</b>         |

**Private On-Site Emergency Response Team**

DOES YOUR BUSINESS HAVE A PRIVATE ON-SITE EMERGENCY RESPONSE TEAM? ☐ Yes ☒ No  
(yes, describe what policies and procedures your business will follow to notify your on-site emergency response team in the event of a release or threatened release of hazardous materials.)

**Unified Program (UP) Form  
CONSOLIDATED CONTINGENCY PLAN**

**SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN**

**D. Arrangements With Emergency Responders**

If you have made special (i.e. contractual) arrangements with any police department, fire department, hospital, contractor or State or local emergency response team to coordinate emergency services, describe those arrangements on the lines below.

N/A

**E. Evacuation Plan**

1. The following alarm signal(s) will be used to begin evacuation of the facility (check all which apply):

☒ Verbal ☒ Telephone (including cellular) ☒ Alarm System ☒ Public Address System ☐ Intercom  
☐ Pagers ☒ Portable Radio ☐ Other (specify):

2. ☒ Evacuation map is prominently displayed throughout the facility.

3. ☒ Individual(s) responsible for coordinating evacuation including spreading the alarm and confirming the business has been evacuated:

**SHIFT SUPERVISORS**

**F. Earthquake Vulnerability**

Identify areas of the facility where releases could occur or would require immediate inspection or isolation because of the vulnerability to earthquake related ground motion.

☒ Hazardous Waste/ Hazardous Materials Storage Areas ☐ Production Floor ☐ Process Lines  
☐ Bench/ Lab ☐ Waste Treatment ☒ Other: Hazardous Waste Accumulation Areas

Identify mechanical systems where releases could occur or would require immediate inspection or isolation because of the vulnerability to earthquake related ground motion.

☐ Utilities ☐ Sprinkler Systems ☐ Cabinets ☐ Shelves  
☐ Racks ☐ Pressure Vessels ☒ Gas Cylinders ☒ Tanks  
☒ Process Piping ☐ Shutoff Valves ☐ Other:

**G. Emergency Procedures**

Briefly describe your business standard operating procedures in the event of a release or threatened release of hazardous material:

1. **PREVENTION** (prevent the hazard) - Describe the kinds of hazards associated with the hazardous materials present at your facility. What actions would your business take to prevent these hazards from occurring? You may include a discussion of safety and storage procedures.

Hazards associated with materials present at this facility include those commonly associated with the handling of natural gas, lubricating oil, caustic, and oxidizers. Precautions against these hazards are described in the facility's Spill Prevention Control and Countermeasure Plan (SPCC), the Site Emergency Contingency Plan, and the Hazardous Materials and Hazardous Waste Management Plan. The precautions include formal training of affected personnel, written operating instructions, notification procedures, containment and remediation order. The safety and storage procedures are covered in

SP 7-1: Emergency Prep & Response Plan, SP 8-2: Haz Materials & Haz Waste Mgmt Plan, & SP 8-1: SPCC.

**Unified Program (UP) Form  
CONSOLIDATED CONTINGENCY PLAN**

**SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN**

**2. MITIGATION** (reduce the hazard) - Describe what is done to lessen the harm or the damage to person(s), property, or the environment, and prevent what has occurred from getting worse or spreading. What is your immediate response to a leak, spill, fire, explosion, or airborne release at your business?

Reports & mitigation procedures are outlined in the facility's Site Emergency Plan, Hazardous Materials and Hazardous Waste Mgmt Plan, and SPOC Plan. In instances of leaks, spills, explosions, or airborne releases, station personnel operating the equipment (on a 24-hour basis), immediately notify the Shift Supervisor. The Shift Supervisor is the site Incident Commander. The response includes, but is not limited to, the proper notification of regulatory agencies, isolation, and if necessary, an emergency evacuation of the area. Terrorists attacks are not considered a significant hazard to any hazardous material or electrical generating facilities at El Segundo Power, LLC. Positive access to the site is controlled by perimeter fencing and by uniformed security guards. The Department of Homeland Security guidelines are followed for alert levels. Security staffing procedures have changed to reflect change in alert levels. El Segundo Power, LLC, will be especially vigilant to ensure that any suspicious activity, including threats, unusual purchases, suspicious behavior is expeditiously reported to the El Segundo Police Department and to the local field office of the FBI. The FBI, through its weapons of mass destruction coordinator, will facilitate a formal threat assessment process with FBI headquarters and other government agencies as necessary. El Segundo Generating Station has never been the target of a terrorist attack, however, in the unlikely event of a terrorist attack, the Emergency Preparedness and Emergency Response Plan covers the actions required to protect employee and public safety and environmental well being in the event of an unplanned attack or release.

**3. ABATEMENT** (remove the hazard) - Describe what you would do to stop and remove the hazard. How do you handle the complete process of stopping a release, cleaning up, and disposing of released materials at your facility?

Control & elimination of the hazard would be as directed by the Shift Supervisor. Such directions would include the containing of hazardous materials by using dikes and absorbent materials. Personnel trained to the appropriate HAZWOPER level or licensed, permitted contractors would assume responsibility for the clean-up of the hazardous material. As permitted, a licensed contractor would be contracted for the removal of the hazardous waste to the proper site. See the Contingency Plan for more detailed information.

Unified Program (UP) Form  
CONSOLIDATED CONTINGENCY PLAN

## II. Emergency Equipment

22 CCR, Section 65265.52(e) [as referenced by Section 65262.34(a)(3)] requires that emergency equipment at the facility be listed. Completion of the following Emergency Equipment Inventory Table meets this requirement.

| EMERGENCY EQUIPMENT INVENTORY TABLE   |   |                               |  |
|---|---|-------------------------------|--|
| 1.<br>Equipment<br>Category   | 2.<br>Equipment<br>Type   | 3.<br>(See Key)<br>Location * | 4.<br>Description**                                      |
| Personal<br>Protective<br>Equipment,<br>Safety<br>Equipment,<br>and<br>First Aid<br>Equipment | <input checked="" type="checkbox"/> Cartridge Respirators                               | 1, 2                          | NIOSH approved   |
|   | <input checked="" type="checkbox"/> Chemical Monitoring Equipment (describe)            | 1, 9, 10, 11                  | Ammonia Vapor and Leak Detectors                         |
|   | <input checked="" type="checkbox"/> Chemical Protective Aprons/Gloves                   | 2, 3                          | Chemical Resistant                                       |
|   | <input checked="" type="checkbox"/> Chemical Protective Boots                           | 2, 3                          | Chemical Resistant                                       |
|   | <input checked="" type="checkbox"/> Chemical Protective Suits                           | 2, 3                          | Chemical Resistant                                       |
|   | <input type="checkbox"/> Chemical Protective Suits (describe)                           |                               | N/A  |
|   | <input checked="" type="checkbox"/> Face Shields  | 2, 3                          | Chemical Resistant                                       |
|   | <input checked="" type="checkbox"/> First Aid Kits/Stations (describe)                  | 4                             | Minor injuries only                                      |
|   | <input checked="" type="checkbox"/> Hard Hats   | 4                             | ANSI approved  |
|   | <input checked="" type="checkbox"/> Plumbed Eye Wash Stations                           | 5                             | Potable water supplied with safety shower                |
|   | <input type="checkbox"/> Portable Eye Wash Kits (e.g., bottle type)                     |                               | N/A  |
|   | <input checked="" type="checkbox"/> Respirator Cartridges (describe)                    | 1, 2                          | NIOSH approved   |
|   | <input checked="" type="checkbox"/> Safety Glasses/Splash Goggles                       | 1, 2                          | ANSI approved  |
|   | <input checked="" type="checkbox"/> Safety Showers                                      | 5                             | OSHA approved  |
|   | <input type="checkbox"/> Self-Contained Breathing Apparatuses (SCBA)                    |                               | N/A  |
| Fire<br>Extinguishing<br>Systems  | <input type="checkbox"/> Other (describe)   |                               | N/A  |
|   | <input checked="" type="checkbox"/> Automatic Fire Sprinkler Systems                    | 6                             | NEPA approved  |
|   | <input checked="" type="checkbox"/> Fire Alarm Boxes/Stations                           | 8                             | NEPA approved  |
|   | <input type="checkbox"/> Fire Extinguisher Systems (describe)                           |                               | N/A  |
|   | <input type="checkbox"/> Other (describe)   |                               | N/A  |
| Spill<br>Control<br>Equipment<br>and<br>Decontamination<br>Equipment                          | <input checked="" type="checkbox"/> Absorbents (describe)                               | 7                             | Oil Absorbent  |
|   | <input type="checkbox"/> Berms/Dikes (describe)   |                               | N/A  |
|   | <input type="checkbox"/> Decontamination Equipment (describe)                           |                               | N/A  |
|   | <input type="checkbox"/> Emergency Tanks (describe)                                     |                               | N/A  |
|   | <input type="checkbox"/> Exhaust Hoods  |                               | N/A  |
|   | <input type="checkbox"/> Gas Cylinders Leak Repair Kits (describe)                      |                               | N/A  |
|   | <input type="checkbox"/> Neutralizers (describe)  |                               | N/A  |
|   | <input type="checkbox"/> Overpack Drums   |                               | N/A  |
|   | <input checked="" type="checkbox"/> Surbs (describe)                                    | 8                             | Plant Waste Water  |
|   | <input type="checkbox"/> Other (describe)   |                               | N/A  |
| Communications<br>and<br>Alarm<br>Systems   | <input type="checkbox"/> Chemical Alarms (describe)                                     |                               | N/A  |
|   | <input checked="" type="checkbox"/> Intercom/PA Systems                                 |                               | 4  |
|   | <input checked="" type="checkbox"/> Portable Radios                                     | 2, 1                          | Three Channel  |
|   | <input checked="" type="checkbox"/> Telephones  | 2, 1                          | Phone systems  |
|   | <input checked="" type="checkbox"/> Underground Tank Leak Detection Monitors            | 9                             | Audible Alarm  |
|   | <input checked="" type="checkbox"/> Other, Underground ammonia feed line leak detection | 11                            | Audible Alarm  |
| Plant<br>Location<br>Key  | KEY   |                               |  |
|   | 1. Control Room   |                               | 6. Units 3 & 4 Boiler Frames                             |
|   | 2. Warehouse  |                               | 7. Lube Oil Storage Areas                                |
|   | 3. Chemical Feed Area   |                               | 8. Various locations in plant leading to retention basin |
|   | 4. All locations  |                               | 9. Ammonia Storage Tank                                  |
|   | 5. All Chemical Storage Areas   |                               | 10. Units 3 & 4 SCR Injection Skids                      |
|   |   |                               | 11. Underground section of ammonia feed line             |

Use the Location Under (L.C.) from the Storage Map(s) prepared for your Condensate Pkg

\*\* Describe the equipment and its capabilities. If applicable, specify any testing/maintenance procedures/intervals. Attach additional pages, numbered appropriately, if needed.

# **Unified Program (UP) Form CONSOLIDATED CONTINGENCY PLAN**

## **SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN**

### **Employee Training Plan**

All facilities which handle hazardous materials must have a written employee training plan. A blank plan has been provided below for you to complete and submit. Check all boxes which apply.

*(Note: Items marked with an asterisk (\*) are required.)*

1. Personnel are trained in the following procedures:

|                                     |   |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | Internal alarm/notification *   |
| <input checked="" type="checkbox"/> | Evacuation/re-entry procedures and assembly point locations*  |
| <input checked="" type="checkbox"/> | Emergency incident reporting  |
| <input checked="" type="checkbox"/> | External emergency response organization notification   |
| <input checked="" type="checkbox"/> | Location(s) and contents of Contingency Plan  |
| <input checked="" type="checkbox"/> | Facility evacuation drills, which are conducted at least (specify) <u>ANNUALLY</u> (e.g. "Quarterly", etc.) |

2. Chemical Handlers are additionally trained in the following:

|                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | Safe methods for handling and storage of hazardous materials *   |
| <input checked="" type="checkbox"/> | Location(s) and proper use of fire and spill control equipment   |
| <input checked="" type="checkbox"/> | Spill procedures/emergency procedures  |
| <input checked="" type="checkbox"/> | Proper use of personal protective equipment *  |
| <input checked="" type="checkbox"/> | Specific hazard(s) of each chemical to which they may be exposed, including routes of exposure (i.e. inhalation, ingestion, absorption) *  |
| <input checked="" type="checkbox"/> | Hazardous Waste Handlers/Managers are trained in all aspects of hazardous waste management specific to their job duties (e.g. container accumulation time requirements, labeling requirements, storage area inspection requirements, manifesting requirements, etc.) * |

3. Emergency Response Team Members are capable of and engaged in the following:

|                                     |  |
|-------------------------------------|--|
| <input type="checkbox"/>            | Personnel rescue procedures  |
| <input type="checkbox"/>            | Shutdown of operations   |
| <input checked="" type="checkbox"/> | Liaison with responding agencies   |
| <input type="checkbox"/>            | Use, maintenance, and replacement of emergency response equipment  |
| <input checked="" type="checkbox"/> | Refresher training, which is provided at least annually *  |
| <input checked="" type="checkbox"/> | Emergency response drills, which are conducted at least (specify) <u>ANNUALLY</u> (e.g. "Quarterly", etc.) |

### **Recordkeeping**

All facilities which handle hazardous materials must maintain records associated with their management. A summary of your recordkeeping procedures is required. A blank summary has been provided below for you to complete and submit. Check all boxes which apply. The following records are maintained at the facility.

*(Note: Items marked with an asterisk (\*) are required.)*

|                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | Current employees' training records (to be retained until closure of the facility) *                       |
| <input checked="" type="checkbox"/> | Former employees' training records (to be retained at least three years after termination of employment) * |
| <input checked="" type="checkbox"/> | Training Program(s) (i.e. written description of introductory and continuing training) *                   |
| <input checked="" type="checkbox"/> | Current copy of this Contingency Plan *  |
| <input checked="" type="checkbox"/> | Record of recordable/reportable hazardous material/waste releases *  |
| <input type="checkbox"/>            | Record of hazardous material/waste storage area inspections *  |
| <input type="checkbox"/>            | Record of hazardous waste tank daily inspections *   |
| <input checked="" type="checkbox"/> | Description and documentation of facility emergency response drills  |

**Unified Program (UP) Form  
CONSOLIDATED CONTINGENCY PLAN**

*Note: The above list of records does not necessarily identify every type of record required to be maintained by the facility.*

**SECTION II: UST EMERGENCY RESPONSE AND MONITORING PLAN**

**I. FACILITY IDENTIFICATION**

|   |                               |                                       |
|---|-------------------------------|---------------------------------------|
| BUSINESS NAME<br><b>EL SEGUNDO POWER, LLC</b> | 3                             | FACILITY ID # 1<br><b>19013300011</b> |
| SITE ADDRESS<br><b>301 VISTA DEL MAR</b>      | 103 CITY<br><b>EL SEGUNDO</b> | 104 ZIP CODE<br><b>105 90245</b>      |

**II. MONITORING PLAN AND PROCEDURES**

**1. The frequency of monitoring is as follows:**

- a. Tank: The SCR Ammonia Tank is monitored continuously for leaks. Operations personnel make rounds of the tank and piping system at least twice per shift.
- b. Piping: Operations personnel make rounds of the tank and piping system at least twice per shift.

**2. The methods and equipment (name and model) used for monitoring include:**

- a. Tank: There are two separate Mine Safety Appliances (MSA) electronic leak detection systems provided with a total of nine leak sensors. The Ammonia Storage tank has six electronic leak detector monitors. An alarm light and buzzer will activate with the detection of liquid. Ammonia vapor leak detectors are located locally in the area of the storage tank top and at the ammonia skid under unit 4 boiler.
- b. Piping: Three leak detector sensors are installed in the underground double walled piping. An alarm light and buzzer will activate with the detection of liquid. All alarms are also received in the Units 3 & 4 Control Room.

**3. The location (s) where monitoring will be performed include (see attached plot plan for further details):**

SEE ATTACHED

Attach one page plot plan showing:

1. Location of underground storage tanks, buildings, and property lines.
2. Location of monitoring points and the monitoring system is located

**4. The name(s) of responsible person (s) performing the monitoring and/or maintaining the equipment include:**

Aucun Aaberg, Regional Plants Manager

**5. The reporting format for all monitoring performed is as follows:**

- a. Tank: Operations personnel make rounds of the system at least twice per shift. The system status is recorded on the RCRA Daily sheet.
- b. Piping: Operations personnel make rounds of the system at least twice per shift. The system status is recorded on the RCRA Daily sheet.

**6. The preventative maintenance schedule for the monitoring equipment is:**

Operating personnel test alarm circuit on a daily basis. The Instrument Department conducts tests every 3 months to ensure the alarm system is operable. The leak detection system is certified and preventive maintenance is performed on an annual basis.

**7. The training necessary for the operation of UST systems, including piping and monitoring equipment includes:**

Operations and maintenance personnel are trained on leak detection alarm response procedures. All station personnel are trained annually in HAZWOPER response procedures; operations personnel are trained to the HAZWOPER Operations level; shift supervisors and key management personnel are trained at the HAZWOPER Incident Commander level; all other plant personnel are trained to the HAZWOPER Awareness level.

*Note: Training is scheduled and provided on AN ANNUAL basis and training records for personnel are kept at the facility.*

**Unified Program (UP) Form  
CONSOLIDATED CONTINGENCY PLAN**

**SECTION II: EMERGENCY RESPONSE AND MONITORING PLAN**

**III. EMERGENCY RESPONSE PLAN**

**1. If an unauthorized release occurs, hazardous substances will be cleaned up by:**

Emergency response requirements beyond the capabilities of our Station Personnel will be deferred to a qualified outside contractor

**2. Agency notifications will be made as detailed in Section I of the Contingency Plan, and the local agency responsible for Underground Storage Tanks (USTs) shall be notified as required by state and local laws and regulations.**

Local UST Agency EL SEGUNDO FIRE DEPARTMENT Phone 310-624-2242

**3. The following persons are responsible for authorizing work necessary under the response plan:**

| Name                          | Title                     | Phone                 |
|-------------------------------|---------------------------|-----------------------|
| SHIFT SUPERVISOR              | SHIFT SUPERVISOR          | 310-615-6313          |
| ALDUN AABERG                  | REGIONAL PLANTS MANAGER   | 310-615-6342          |
| ALEX SANCHEZ/STEVE ODABASHIAN | ENVIRONMENTAL SUPERVISORS | 310-615-6351/615-6331 |
| Additional Persons            |                           |                       |

**4. The proposed methods and equipment to be used for removing and properly disposing of hazardous substances and cleanup wastes are the following:**

In case of a spill scenario, a qualified contractor will be contacted to clean up and properly dispose of any hazardous substances and wastes, subject to the El Segundo Fire Department (CUPA) approval.

**5. The location and availability of the required cleanup equipment listed in item #4 is as follows:**

N/A

**6. The maintenance schedule for the cleanup equipment is as follows:**

N/A

**7. Additional information:**

**IV. PLAN CERTIFICATION**

*I certify under penalty of law that I have personally examined and I am familiar with the information provided by this plan and to the best of my knowledge the information is accurate, complete, and true.*

Printed Name of Owner/Operator El Segundo Power, LLC  
Signature of Owner/Operator By: NRG Operations, Inc.  
Title of Owner/Operator Regional Plants Manager

Signature of Owner/Operator

# UNIFIED PROGRAM CONSOLIDATED FORM **REGULATED SUBSTANCE REGISTRATION**

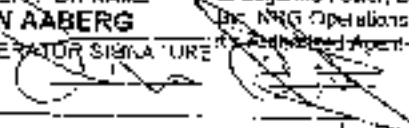
THIS PAGE IS TO BE COMPLETED FOR A STATIONARY SOURCE THAT HANDLES A REGULATED SUBSTANCE (RS) IN A PROCESS AT OR ABOVE THE THRESHOLD QUANTITY. REGULATED SUBSTANCES (INCLUDING FEDERAL LISTED AND STATE LISTED EXTREMELY HAZARDOUS SUBSTANCES) MUST BE REGISTERED FOR THE PURPOSE OF COMPLYING WITH THE CARP (CALIFORNIA ACCIDENTAL RELEASE PREVENTION) PROGRAM. THE OWNER OR OPERATOR SHALL COMPLETE A HAZARDOUS MATERIALS INVENTORY FORM AND A REGISTRATION FOR EACH REGULATED SUBSTANCE PER EACH PROCESS.

|   |  |                                      |                                 |  |   |                            |
|---|--|--------------------------------------|---------------------------------|--|---|----------------------------|
| BUSINESS NAME<br><b>EL SEGUNDO POWER, LLC</b>   |  | FACILITY ID#<br><b>19 013 300011</b> |                                 | 1 EPA ID #<br><b>CAR 000036848</b>   | 2 PROGRAM LEVEL <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 | 246a                       |
| NAME OF CORPORATE PARENT COMPANY<br><b>EL SEGUNDO POWER, LLC</b>  |  |                                      | 246b                            | DUN & BRADSTREET<br><b>19-723-5187</b>   |   | 106                        |
| PERSON RESPONSIBLE FOR RMP (First Name, Last Name)<br><b>AUDUN AABERG</b>   |  |                                      | 246c                            | TITLE<br><b>REGIONAL PLANTS MANAGER</b>  |   | 246d                       |
| LATITUDE<br><b>34 49 23.3</b>   |  | 246e                                 | LONGITUDE<br><b>117 38 44.2</b> |  | 246f  | PROCESS SIC<br><b>4911</b> |
| DOES THE FACILITY HAVE SUBSTANCES LISTED IN 40 CFR 355 APPENDIX A (EHS)? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO  |  |                                      | 246g                            | DO ANY PROCESSES REQUIRE A CLEAN AIR ACT TITLE V OPERATING PERMIT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |   |                            |
| IS FACILITY SUBJECT TO 20CFR 1970.118/CCR R SEC 51.82(PRM)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO   |  |                                      | 246h                            | LAST SAFETY INSPECTION DATE: <b>2/25/03</b> AGENCY: <b>EL SEGUNDO FIRE DEPT - CUPA</b>   |   |                            |
| CHEMICAL NAME<br><b>AQUEOUS AMMONIA 28%</b>   |  |                                      | 205                             | CASA#<br><b>1336-21-6</b>  |   |                            |
| MAXIMUM DAILY AMOUNT<br><b>20000 GALLONS</b>  |  |                                      | 278a                            | UNITS IN POUNDS<br><b>186,800 POUNDS</b>   |   |                            |
| PROCESS DESCRIPTION<br><br>29.5% Aqueous Ammonia is stored in an underground storage tank with a maximum capacity of 20,000 gallons. The solution is pumped through about 1,450 feet of 2-inch in diameter piping to two individual Selective Catalytic Reduction (SCR) systems feeding into Units 3&4 boilers. The ammonia solution is Vaporized in the SCRs. This process reduces approximately 80% of the nitrogen oxides (Nox) emissions from the boiler emissions. |  |                                      |                                 |  |   |                            |

|  |      |
|--|------|
| PRINCIPAL EQUIPMENT  | 246i |
| <ul style="list-style-type: none"> <li>1 - 20,000 gallon storage tank</li> <li>1 - 1,450 feet of 2-inch in diameter piping</li> <li>2 - SCR systems</li> </ul> |      |

## **CERTIFICATION**

I, the owner or operator of the aforementioned business, hereby certify that the registration information provided above is true, accurate, and complete to the best of my knowledge based upon reasonable inquiry. I am fully aware that this certification executed on the date indicated below is made under penalty of perjury under the laws of the State of California.

|   |      |  |      |
|---|------|--|------|
| OWNER/OPERATOR NAME<br><b>AUDUN AABERG</b>  | 246j | OWNER/OPERATOR TITLE<br><b>REGIONAL PLANTS MANAGER</b> | 246m |
| OWNER/OPERATOR SIGNATURE<br> |      | DATE<br><b>2/25/03</b>                                 | 246n |

|   |               |   |
|---|---------------|---|
| OFFICIAL USE ONLY   | DATE RECEIVED | REVIEWED BY   |
| <input type="checkbox"/> RN <input type="checkbox"/> STA <input type="checkbox"/> OTHER |               | <input type="checkbox"/> INSTRUCT <input type="checkbox"/> CUPA <input type="checkbox"/> RA |

# UNIFIED PROGRAM (UP) FORM RECYCLABLE MATERIALS REPORT - PAGE 1

(COMPLETE ONLY IF CLAIMING A RECYCLING EXCLUSION OR EXEMPTION PER HSC SECTION 26143.2)

FACILITY ID# 19013300011 FFA ID# CAR 000036848 Page 1 of 2

BUSINESS NAME (Same as FACILITY NAME or DBA - (Doing Business As))

**EL SEGUNDO POWER, LLC, 301 VISTA DEL MAR, EL SEGUNDO, 90245**

DATES OF REPORTING PERIOD BEGINNING DATE 5/01 ENDING DATE 5/01

## EL SEGUNDO POWER, LLC, DOES NOT CLAIM ANY EXCLUSIONS OR EXEMPTIONS

### I. TYPE OF RECYCLING ACTIVITIES

If yes, please follow instructions.

1. Do you recycle more than 100 kg/month of excluded or exempted recyclable material at the same location at which the material was generated (onsite recycling)?

☐ YES ☒ NO

507 4. If YES, you are both the generator and recycler. Complete one Recyclable Materials Report. Do not complete Parts II and V.

2. Do you recycle more than 100 kg/month of non-manifested, excluded recyclable materials received from an offsite location (offsite recycling)?

☐ YES ☒ NO

509 4. If YES, you are an offsite recycler but not the generator. Complete a Recyclable Materials Report for each generator that sends you materials.

-Businesses that only send recyclable materials to an offsite recycler are not required to file this report.-

### II. OFFSITE GENERATOR OF RECYCLABLE MATERIAL

Only complete when the generator is different from the recycler

OFFSITE GENERATOR OF RECYCLABLE MATERIAL

504

OFFSITE GENERATOR EPA ID#

506

N/A

STREET ADDRESS

505

PHONE

507

CITY

508

STATE

509

ZIP CODE

510

MAILING ADDRESS (if different)

511

CITY

512

STATE

513

ZIP CODE

514

### III. CERTIFICATION SECTION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete.

SIGNATURE OF DOCUMENT PREPARER

515

NAME OF DOCUMENT PREPARER

516

NAME OF SIGNER (PRINT) Sheng-Peng Jeng, EL SEGUNDO POWER, LLC

517

TITLE OF SIGNER

518

AUDUN AABERG

REGIONAL PLANTS MANAGER

OFFICIAL USE ONLY

DATE RECEIVED

REVIEWED BY

CUPA

PA

DISTRICT

INSPECTOR

# UNIFIED PROGRAM / UPR FORM RECYCLABLE MATERIALS REPORT - PAGE 2

(COMPLETE ONLY IF CLAIMING A RECYCLING EXCLUSION OR EXEMPTION PER HSC SECTION 25143.2)

(one description per material recycled, attach additional pages, if needed)

|   |  |
|---|--|
| TOTAL NUMBER OF RECYCLABLE MATERIALS <span style="float: right;">519</span> | BUSINESS NAME (Same as FACILITY NAME or UPR - Doing Business As) |
| FACILITY ID# <span style="float: right;">1 9 0 1 3 3 0 0 0 1 1</span>       | EL SEGUNDO POWER, LLC.   |

## IV. RECYCLABLE MATERIAL INFORMATION

| RECYCLABLE MATERIAL NUMBER <span style="float: right;">520</span>      | COMMON NAME OF RECYCLABLE MATERIAL <span style="float: right;">521</span> | A. DESCRIPTION<br>QUANTITY DURING TWO YEAR REPORTING PERIOD <span style="float: right;">522</span> | UNITS <input type="checkbox"/> a. Gallons <input type="checkbox"/> c. Tons <span style="float: right;">523</span><br><input type="checkbox"/> b. Pounds <input type="checkbox"/> d. Kilograms |
|--|---|--|---|
| N/A  | N/A   | N/A  |   |
| RECYCLABLE MATERIAL DESCRIPTION <span style="float: right;">524</span> |   |  |   |

**EL SEGUNDO POWER, LLC, DOES NOT CLAIM ANY EXCLUSIONS OR EXEMPTIONS**

|  |
|--|
| RECYCLING PROCESS AND BENEFICIAL USE OF RECYCLABLE MATERIAL <span style="float: right;">525</span> |
|--|

|   |   |
|---|---|
| AUTHORIZING PROVISION OF HSC SECTION 25143.2 <span style="float: right;">526</span> | BASIS FOR CLAIM TO AN EXCLUSION OR EXEMPTION <span style="float: right;">527</span> |
|---|---|

## B. PRODUCT AND CONSTITUENT INFORMATION: OFFSITE ONLY

Only complete if recyclable material was used to make or substitute for a product and operating pursuant to HSC Section 25143.2(b) or (d)(5) or (8).

| HAZARDOUS CONSTITUENT <span style="float: right;">528</span> | HAZARDOUS CONSTITUENT   |   | LIST FINAL PRODUCT(S) MADE FROM THIS RECYCLABLE MATERIAL AND BENEFICIAL USE OF FINAL PRODUCT(S) <span style="float: right;">530</span> |
|--|---|---|--|
|  | In Recyclable Material <span style="float: right;">529</span>   | In Final Product <span style="float: right;">531</span>   |  |
|  | UNITS <span style="float: right;">532</span><br><input type="checkbox"/> a percent <input type="checkbox"/> b ppm | UNITS <span style="float: right;">533</span><br><input type="checkbox"/> a percent <input type="checkbox"/> b ppm |  |
|  | UNITS <span style="float: right;">534</span><br><input type="checkbox"/> a percent <input type="checkbox"/> b ppm | UNITS <span style="float: right;">535</span><br><input type="checkbox"/> a percent <input type="checkbox"/> b ppm |  |
|  | UNITS <span style="float: right;">536</span><br><input type="checkbox"/> a percent <input type="checkbox"/> b ppm | UNITS <span style="float: right;">537</span><br><input type="checkbox"/> a percent <input type="checkbox"/> b ppm |  |
|  | UNITS <span style="float: right;">538</span><br><input type="checkbox"/> a percent <input type="checkbox"/> b ppm | UNITS <span style="float: right;">539</span><br><input type="checkbox"/> a percent <input type="checkbox"/> b ppm |  |
|  | UNITS <span style="float: right;">540</span><br><input type="checkbox"/> a percent <input type="checkbox"/> b ppm | UNITS <span style="float: right;">541</span><br><input type="checkbox"/> a percent <input type="checkbox"/> b ppm |  |
|  | UNITS <span style="float: right;">542</span><br><input type="checkbox"/> a percent <input type="checkbox"/> b ppm | UNITS <span style="float: right;">543</span><br><input type="checkbox"/> a percent <input type="checkbox"/> b ppm |  |
|  | UNITS <span style="float: right;">544</span><br><input type="checkbox"/> a percent <input type="checkbox"/> b ppm | UNITS <span style="float: right;">545</span><br><input type="checkbox"/> a percent <input type="checkbox"/> b ppm |  |
|  | UNITS <span style="float: right;">546</span><br><input type="checkbox"/> a percent <input type="checkbox"/> b ppm | UNITS <span style="float: right;">547</span><br><input type="checkbox"/> a percent <input type="checkbox"/> b ppm |  |
|  | UNITS <span style="float: right;">548</span><br><input type="checkbox"/> a percent <input type="checkbox"/> b ppm | UNITS <span style="float: right;">549</span><br><input type="checkbox"/> a percent <input type="checkbox"/> b ppm |  |

If more than four constituents are recycled, attach additional sheets using this same format.

## V. DOCUMENTATION OF KNOWN MARKET (Offsite recyclers only)

|   |
|---|
| DOCUMENTATION IS ATTACHED: Offsite recyclers must attach documentation that there was a known market for disposition of the recyclable material and any products manufactured from the recyclable materials and provide copy of this report to the generator when the report is submitted to the CUPA or PA. (HSC Section 25143.10(a)(3)(A)) <span style="float: right;">550</span> |
|---|

|                   |               |             |           |
|-------------------|---------------|-------------|-----------|
| OFFICIAL USE ONLY | DATE RECEIVED | REVIEWED BY | INSPECTOR |
| CUPA              | PA            | DISTRICT    |           |

# UNIFIED PROGRAM (UP) FORM ONSITE HAZARDOUS WASTE TREATMENT NOTIFICATION - UNIT PAGE

(add page not including per unit)

FACILITY ID# 1 9 0 1 3 3 0 0 1 1 BUSINESS NAME (Name on FACILITY NAME or ODA - Using document A4) EL SEGUNDO POWER, LLC Page 1 of 3

## I. TREATMENT UNIT

|           |     |   |     |                          |     |  |     |
|-----------|-----|---|-----|--------------------------|-----|--|-----|
| UNIT ID#  | 606 | UNIT TYPE/TIER  | 907 | NUMBER OF TANKS          | 609 | NUMBER OF CONTAINERS / TREATMENT AREAS                               | 809 |
|           |     | <input type="checkbox"/> a CESQ<br><input type="checkbox"/> b CESW<br><input type="checkbox"/> c CA<br><input type="checkbox"/> d PBR<br><input type="checkbox"/> e CEL |     |                          |     |  |     |
| UNIT NAME |     | 610   |     | MONTHLY TREATMENT VOLUME |     | 611  |     |
|           |     |   |     |                          |     | <input type="checkbox"/> a Pounds <input type="checkbox"/> b Gallons |     |

SPECIFIC WASTE TYPE TREATED (narrative) \_\_\_\_\_ 612

**EL SEGUNDO POWER, LLC DOES NOT TREAT ONSITE HAZARDOUS WASTE.**

TREATMENT PROCESS DESCRIPTION (narrative) \_\_\_\_\_ 613

(NOTE: For each treatment unit, complete and attach the appropriate Waste And Treatment Process Combinations page)

## II. BASIS FOR NOT NEEDING FEDERAL PERMIT (Check all that apply)

|   |   |
|---|---|
| <input type="checkbox"/> a. The treated waste is not a hazardous waste under federal law (California-only waste).<br><input type="checkbox"/> b. Treated in waste water treatment units (bioreactors) and discharged to a Publicly Owned Treatment Works (POTW); sewerage agency or under an NPDES permit.<br><input type="checkbox"/> c. Treatment in elementary neutralization units.<br><input type="checkbox"/> d. Treatment in a totally enclosed treatment facility.<br><input type="checkbox"/> e. Federal conditionally exempt small quantity generator (generated 100 kg, approximately 27 gallons, or less of hazardous waste in a calendar month). | <input type="checkbox"/> f. Treatment in an accumulation tank or container within 90 days for over 1000 kg/month generators and 180 or 270 days for generators of 100 to 1000 kg/month.<br><input type="checkbox"/> g. Recyclable materials are reclaimed to recover silver or other precious metals.<br><input type="checkbox"/> h. Empty container rinsing and/or treatment.<br><input type="checkbox"/> i. Other (specify below) _____ |
|---|---|

## III. RESIDUALS MANAGEMENT DESCRIPTION (Check all that apply)

|   |  |
|---|--|
| <input type="checkbox"/> a. Discharge non-hazardous aqueous waste to POTW or sewer.<br><input type="checkbox"/> b. Discharge non-hazardous aqueous waste under an NPDES permit.<br><input type="checkbox"/> c. Dispose of non-hazardous solid waste residues at an off-site location. | Residual hazardous waste hauled off-site by a registered hauler _____ 614<br><input checked="" type="checkbox"/> d. Offsite recycling<br><input type="checkbox"/> e. Thermal treatment<br><input type="checkbox"/> f. Disposal to land<br><input type="checkbox"/> g. Further treatment<br><input type="checkbox"/> h. Other method of disposal (describe below) _____ |
|---|--|

SECONDARY CONTAINMENT INSTALLATION DATE (if required) \_\_\_\_\_ 615

|                   |                |                 |
|-------------------|----------------|-----------------|
| OFFICIAL USE ONLY | DATE RECEIVED  | REVIEWED BY     |
| PA _____ PA _____ | DISTRICT _____ | INSPECTOR _____ |

**UNIFIED PROGRAM (UP) FORM**  
**ONSITE HAZARDOUS WASTE TREATMENT**  
**CONDITIONALLY EXEMPT - SPECIFIED WASTESTREAMS (CESW) PAGE**  
**WASTE AND TREATMENT PROCESS COMBINATIONS**

UNIT ID# 01

406

Facility ID#

Date page 20 Treatment end - check off last digit

Page 1 of 1

**EL SEGUNDO POWER, LLC, DOES NOT TREAT HAZARDOUS WASTE ONSITE**

- ☐ 1. Treating resins mixed or cured in accordance with the manufacturer's instructions (including one-part and pre-impregnated materials).
- ☐ 2. Treating a container of 110 gallons or less capacity, which is not constructed of wood, paper, cardboard, fabric or any other similar absorptive materials, for the purposes of emptying the container as specified by Section 66261.7 of Title 22 of the California Code of Regulations, as revised July 1, 1990, or treats the inner liners removed from empty containers that once held hazardous waste or hazardous material. The generator shall treat the container or inner liner by using the following technologies, provided the treated containers and rinseate are managed in compliance with the applicable requirements of this chapter.
  - (A) The generator rinses the container or inner liner with a suitable liquid capable of dissolving or removing the hazardous constituents which the container held, and/or,
  - (B) The generator uses physical processes, such as crushing, shredding, grinding, or puncturing, that change only the physical properties of the container or inner liner, if the container or inner liner is first rinsed as provided in subparagraph (A) and the rinseate is removed from the container or inner liner.
- ☐ 3. Drying special wastes, as classified by the Department pursuant to Title 22, CCR, Section 66261.124, by pressing or by passive or heat-aided evaporation to remove water.
- ☐ 4. Magnetic separation or screening to remove components from special waste, as classified by the Department pursuant to Title 22, CCR, Section 66261.124.
- 5. Not in use/exempted—formerly neutralization and regeneration or ion exchange media used to demineralize water.
- 6. Not in use/exempted—formerly neutralization of food processing waste.
- 7. Not in use/exempted—formerly recovery of silver from photofinishing.
- 8. Gravity separation of the following, including the use of flocculants and demulsifiers if.
  - a. The settling of solids from the waste where the resulting aqueous/liquid stream is not hazardous.
- 9. Neutralizing acidic or alkaline (basic) material by a state certified laboratory, a laboratory operated by an educational institution, or a laboratory which treats less than one gallon of onsite generated hazardous waste in any single batch. (To be eligible for conditional exemption, this waste cannot contain more than 10 percent acid or base by weight.)
- 10. Hazardous waste treatment is carried out in quality control or quality assurance laboratory at a facility that is not an offsite hazardous waste facility.
- 11. A wastestream and treatment technology combination certified by the Department pursuant to Section 25200.15 of the Health and Safety Code as appropriate for authorization under CESW.
  - Certified Technology Number
  - 2. The treatment of formaldehyde or glyoxaldehyde by a health care facility using a technology combination certified by the Department pursuant to section 25200.15 of the Health and Safety Code.
    - Certified Technology Number

# UNDEGROUND STORAGE TANKS - FACILITY

(one page per site) Page 1 of 1

TYPE OF ACTION ☐ 1 NEW SITE PERMIT ☐ 3 RENEWAL PERMIT ☐ 5 CHANGE OF INFORMATION ☐ 7 PERMANENTLY CLOSED SITE  
 (Check one item only) ☐ 2 INTERIM PERMIT ☐ 4 AMENDED PERMIT ☐ 6 TEMPORARY SITE CLOSURE ☐ 8 TANK REMOVED 400

## I. FACILITY / SITE INFORMATION

|   |  |  |  |
|---|--|--|--|
| BUSINESS NAME (Same as FACILITY NAME on DEA)  |  | FACILITY ID#   |  |
| EL SEGUNDO POWER, LLC   |  | 1 9 0 1 3 3 0 0 0 1 1  |  |
| NEAREST CROSS STREET  |  | FACILITY OWNER TYPE  |  |
| ROSECRANS   |  | <input type="checkbox"/> 1 CORPORATION <input type="checkbox"/> 4 LOCAL AGENCY/DISTRICT<br><input type="checkbox"/> 2 INDIVIDUAL <input type="checkbox"/> 5 COUNTY AGENCY<br><input checked="" type="checkbox"/> 3 PARTNERSHIP <input type="checkbox"/> 6 STATE AGENCY<br><input type="checkbox"/> 7 FEDERAL AGENCY <span style="float: right;">401</span> |  |
| BUSINESS TYPE   |  | Is facility on Indian Reservation or trustlands?   |  |
| <input type="checkbox"/> 1 GAS STATION <input type="checkbox"/> 3 FARM <input type="checkbox"/> 5 COMMERCIAL<br><input type="checkbox"/> 2 DISTRIBUTOR <input type="checkbox"/> 4 PROCESSOR (X) 6 OTHER <span style="float: right;">402</span><br>Power Plant |  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <span style="float: right;">403</span>   |  |
| TOTAL NUMBER OF TANKS REMAINING AT SITE   |  | If owner of UST is a public agency, name of supervisor of division, section or office which operates the UST (This is the contact person for the tank records)   |  |
| 1 <span style="float: right;">404</span>  |  |  |  |

## II. PROPERTY OWNER INFORMATION

|  |  |   |  |
|--|--|---|--|
| PROPERTY OWNER NAME  |  | PHONE   |  |
| EL SEGUNDO POWER, LLC  |  | 310-615-6028 <span style="float: right;">405</span> |  |
| MAILING OR STREET ADDRESS  |  |   |  |
| 301 VISTA DEL MAR <span style="float: right;">406</span>   |  |   |  |
| CITY   |  | STATE   | ZIP CODE                                     |
| EL SEGUNDO <span style="float: right;">407</span>  |  | CA <span style="float: right;">408</span>           | 90245 <span style="float: right;">409</span> |
| PROPERTY OWNER TYPE  |  |   |  |
| <input type="checkbox"/> 1 CORPORATION <input type="checkbox"/> 2 INDIVIDUAL <input type="checkbox"/> 4 LOCAL AGENCY/DISTRICT <input type="checkbox"/> 6 STATE AGENCY<br><input checked="" type="checkbox"/> 3 PARTNERSHIP <input type="checkbox"/> 5 COUNTY AGENCY <input type="checkbox"/> 7 FEDERAL AGENCY <span style="float: right;">410</span> |  |   |  |

## III. TANK OWNER INFORMATION

|  |  |   |  |
|--|--|---|--|
| TANK OWNER NAME  |  | PHONE   |  |
| EL SEGUNDO POWER, LLC  |  | 310-615-6028 <span style="float: right;">411</span> |  |
| MAILING OR STREET ADDRESS  |  |   |  |
| 301 VISTA DEL MAR <span style="float: right;">412</span>   |  |   |  |
| CITY   |  | STATE   | ZIP CODE                                     |
| EL SEGUNDO <span style="float: right;">413</span>  |  | CA <span style="float: right;">414</span>           | 90245 <span style="float: right;">415</span> |
| TANK OWNER TYPE  |  |   |  |
| <input type="checkbox"/> 1 CORPORATION <input type="checkbox"/> 2 INDIVIDUAL <input type="checkbox"/> 4 LOCAL AGENCY/DISTRICT <input type="checkbox"/> 6 STATE AGENCY<br><input checked="" type="checkbox"/> 3 PARTNERSHIP <input type="checkbox"/> 5 COUNTY AGENCY <input type="checkbox"/> 7 FEDERAL AGENCY <span style="float: right;">416</span> |  |   |  |

## IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER

|                           |   |
|---------------------------|---|
| TY (FK) HQ 44- <u>N/A</u> | Call (916) 322-3669 if questions arise <span style="float: right;">417</span> |
|---------------------------|---|

## V. PETROLEUM UST FINANCIAL RESPONSIBILITY

|   |  |  |  |
|---|--|--|--|
| INDICATE METHOD(S)  |  |  |  |
| <input type="checkbox"/> 1 SELF-INSURED <input type="checkbox"/> 4 SURETY BOND <input type="checkbox"/> 7 STATE FUND <input type="checkbox"/> 10 LOCAL GOV'T MECHANISM<br><input type="checkbox"/> 2 GUARANTEE <input type="checkbox"/> 5 LETTER OF CREDIT <input type="checkbox"/> 8 STATE FUND & CREDIT LETTER <input type="checkbox"/> 39 OTHER: _____<br><input checked="" type="checkbox"/> 3 INSURANCE <input type="checkbox"/> 6 EXEMPTION <input type="checkbox"/> 9 STATE FUND & CREDIT <span style="float: right;">418</span> |  |  |  |

## VI. LEGAL NOTIFICATION AND MAILING ADDRESS

Check one box to indicate which address should be used for legal notifications and mailing.  
 Legal notifications and mailing will be sent to the tank owner unless box 1 or 2 is checked. ☐ 1 FACILITY ☐ 2 PROPERTY OWNER ☐ 3 TANK OWNER 419

## VII. APPLICANT SIGNATURE

|   |   |
|---|---|
| Certification: I certify that the information provided herein is true and accurate to the best of my knowledge. |   |
| SIGNATURE OF APPLICANT  | PHONE   |
|   |   |
| NAME OF APPLICANT (print)   | TITLE OF APPLICANT  |
| ADJUDICATING  | REGIONAL PLANS MANAGER <span style="float: right;">420</span> |

|                           |               |                                 |    |                    |
|---------------------------|---------------|---------------------------------|----|--------------------|
| OFFICIAL USE ONLY         | DATE RECEIVED | CUPA                            | PA | DISTRICT INSPECTOR |
| STATE UST FACILITY NUMBER |               | 1995 UPGRADE CERTIFICATE NUMBER |    |                    |

# UNIFIED PROGRAM (UP) FORM UNDERGROUND STORAGE TANKS - TANK PAGE 1

|  |  |   |  |  |  |  |  |   |  |                                  |  |
|--|--|---|--|--|--|--|--|---|--|----------------------------------|--|
| TYPE OF ACTION                               |  | <input type="checkbox"/> 1. NEW SITE PERMIT |  | <input type="checkbox"/> 3. RENEWAL PERMIT |  | <input checked="" type="checkbox"/> 5. CHANGE OF INFORMATION |  | <input type="checkbox"/> 7. PERMANENTLY CLOSED SITE |  | (Two pages per tank) Page 1 of 2 |  |
| (Check one item only)                        |  | <input type="checkbox"/> 2. INTERM. PERMIT  |  | <input type="checkbox"/> 4. AMENDED PERMIT |  | <input type="checkbox"/> 6. TEMPORARY SITE CLOSURE           |  | <input type="checkbox"/> 8. TANK REMOVED            |  |                                  |  |
| BUSINESS NAME (Same as FACILITY NAME on DBA) |  |   |  | FACILITY ID                                |  |  |  |   |  |                                  |  |
| EL SEGUNDO POWER, LLC                        |  |   |  | 1 9 0 1 3 3 0 0 0 1 1                      |  |  |  |   |  |                                  |  |
| LOCATION WITHIN SITE (Address)               |  |   |  |  |  |  |  |   |  |                                  |  |

## I. TANK DESCRIPTION

(A scaled site plan with location(s) of UST system(s) including buildings and landmarks shall be submitted to the CLPA or PA.)

|   |                          |   |
|---|--------------------------|---|
| TANK ID #                                   | TANK MANUFACTURER        | COMPARTMENTALIZED TANK  |
| 19-013-300011-000001                        | JOOR                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| DATE INSTALLED (YEAR/MO)                    | TANK CAPACITY IN GALLONS | NUMBER OF COMPARTMENTS  |
| 12/1993                                     | 20,000                   | -0-   |
| ADDITIONAL DESCRIPTION (For local use only) |                          |   |

## II. TANK CONTENTS

|   |   |  |
|---|---|--|
| TANK USE  | PETROLEUM TYPE  |  |
|   | <input type="checkbox"/> 1. MOTOR VEHICLE FUEL<br>(If marked complete, designate Type)<br><input type="checkbox"/> 2. NON-FUEL PETROLEUM<br><input checked="" type="checkbox"/> 3. CHEMICAL PRODUCT<br><input type="checkbox"/> 4. HAZARDOUS WASTE (Include Used Oil)<br><input type="checkbox"/> 95. UNKNOWN | <input type="checkbox"/> 1a. REGULAR UNLEADED<br><input type="checkbox"/> 1b. PREMIUM UNLEADED<br><input type="checkbox"/> 1c. MIDGRADE UNLEADED<br><input type="checkbox"/> 2. GRAFIC<br><input type="checkbox"/> 3. DIESEL<br><input type="checkbox"/> 4. GASOHOL<br><input type="checkbox"/> 5. JET FUEL<br><input type="checkbox"/> 6. AVIATION FUEL<br><input checked="" type="checkbox"/> 99. OTHER: AQUEOUS AMMONIA 23% |
| COMMON NAME<br>(From manufacturer. Name may include trade name) |   | CAS#<br>(From hazardous materials inventory card)  |
| AQUEOUS AMMONIA   |   | 1336-21-8  |

## III. TANK CONSTRUCTION

|  |  |  |  |
|--|--|--|--|
| TYPE OF TANK                               | <input type="checkbox"/> 1. SINGLE WALL<br><input checked="" type="checkbox"/> 2. DOUBLE WALL<br><input type="checkbox"/> 3. SINGLE WALL WITH EXTERIOR MEMBRANE LINER<br><input type="checkbox"/> 4. SINGLE WALL WITH INTERNAL BLADDER<br><input type="checkbox"/> 5. UNKNOWN  |  |  |
| TANK MATERIAL - primary tank               | <input type="checkbox"/> 1. BARE STEEL<br><input type="checkbox"/> 2. STAINLESS STEEL<br><input checked="" type="checkbox"/> 3. FIBERGLASS/PLASTIC<br><input type="checkbox"/> 4. STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC (FRP)<br><input type="checkbox"/> 5. CONCRETE<br><input type="checkbox"/> 6. FRP COMPATIBLE W/ 100% METHANOL<br><input type="checkbox"/> 99. OTHER |  |  |
| TANK MATERIAL - secondary tank             | <input type="checkbox"/> 1. BARE STEEL<br><input type="checkbox"/> 2. STAINLESS STEEL<br><input checked="" type="checkbox"/> 3. FIBERGLASS/PLASTIC<br><input type="checkbox"/> 4. STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC (FRP)<br><input type="checkbox"/> 5. CONCRETE<br><input type="checkbox"/> 6. FRP COMPATIBLE W/ 100% METHANOL<br><input type="checkbox"/> 99. OTHER |  |  |
| TANK INTERIOR LINING                       | <input type="checkbox"/> 1. RUBBER LINED<br><input type="checkbox"/> 2. ALKYL LINED<br><input type="checkbox"/> 3. EPOXY LINED<br><input type="checkbox"/> 4. FIBERGLASS LINED<br><input type="checkbox"/> 5. GLASS LINED<br><input type="checkbox"/> 6. UNLINED<br><input type="checkbox"/> 99. OTHER   |  |  |
| DATE INSTALLED                             |  |  |  |
| OR COATING                                 | <input type="checkbox"/> 1. MANUFACTURED CATHODIC PROTECTION<br><input checked="" type="checkbox"/> 2. FIBERGLASS REINFORCED PLASTIC<br><input type="checkbox"/> 3. UNKNOWN<br><input type="checkbox"/> 4. IMPRESSED CURRENT<br><input type="checkbox"/> 5. OTHER  |  |  |
| DATE INSTALLED                             |  |  |  |
| OTHER CORROSION PROTECTION (If applicable) | <input type="checkbox"/> 1. MANUFACTURED CATHODIC PROTECTION<br><input checked="" type="checkbox"/> 2. FIBERGLASS REINFORCED PLASTIC<br><input type="checkbox"/> 3. UNKNOWN<br><input type="checkbox"/> 4. IMPRESSED CURRENT<br><input type="checkbox"/> 5. OTHER  |  |  |
| DATE INSTALLED                             |  |  |  |

|   |                |                           |  |                |
|---|----------------|---------------------------|--|----------------|
| SPILL AND OVERFLOW  | YEAR INSTALLED | TYPE (For local use only) | UNDERGROUND PROTECTION EQUIPMENT   | YEAR INSTALLED |
| <input checked="" type="checkbox"/> 1. SPILL CONTAINMENT<br><input type="checkbox"/> 2. DROPTUBE<br><input type="checkbox"/> 3. STRIKER PLATE | 1993           |                           | <input checked="" type="checkbox"/> 1. ALARM<br><input type="checkbox"/> 2. BALL FLOAT<br><input type="checkbox"/> 3. SHUT-TUBE SHUT OFF VALVE<br><input type="checkbox"/> 4. EXEMPT |                |

## IV. TANK LEAK DETECTION

|   |  |  |  |
|---|--|--|--|
| IF SINGLE WALL TANK (check all that apply)  |  | IF DOUBLE WALL TANK OR TANK WITH BLADDER (check all that apply)  |  |
| <input type="checkbox"/> 1. VISUAL (EXPOSED PORTION ONLY)<br><input type="checkbox"/> 2. AUTOMATIC TANK GAUGING (ATG)<br><input type="checkbox"/> 3. CONTINUOUS ATG<br><input type="checkbox"/> 4. STATISTICAL INVENTORY RECONCILIATION (SIR) + BIENNIAL TANK TESTING | <input type="checkbox"/> 5. MANUAL TANK GAUGING (MTG)<br><input type="checkbox"/> 6. VAPOR ZONE<br><input type="checkbox"/> 7. GROUNDWATER<br><input type="checkbox"/> 8. TANK TESTING<br><input type="checkbox"/> 99. OTHER | <input type="checkbox"/> 1. VISUAL (SINGLE WALL IN VAULT ONLY)<br><input checked="" type="checkbox"/> 2. CONTINUOUS INTERSTITIAL MONITORING<br><input type="checkbox"/> 3. MANUAL MONITORING |  |

## IV. TANK CLOSURE INFORMATION / PERMANENT CLOSURE IN PLACE

|                                    |  |  |
|------------------------------------|--|--|
| ESTIMATED DATE LAST USED (YEAR/MO) | ESTIMATED QUANTITY OF SUBSTANCE REMAINING                | TANK FILLED WITH INERT MATERIAL?                         |
|                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |

|                  |               |      |    |                    |
|------------------|---------------|------|----|--------------------|
| SPECIAL USE ONLY | DATE RECEIVED | CLPA | PA | DISTRICT/INSPECTOR |
|                  |               |      |    |                    |

# UNIFIED PROGRAM CONSOLIDATED FORM UNDERGROUND STORAGE TANKS - TANK PAGE 2

## VI. PIPING CONSTRUCTION (Check all that apply)

Page 2 of 2

| UNDERGROUND PIPING   |  |  |                                     | ABOVEGROUND PIPING   |   |                                      |  |
|--|--|--|-------------------------------------|--|---|--------------------------------------|--|
| SYSTEM TYPE  | <input checked="" type="checkbox"/> 1. PRESSURIZED     | <input type="checkbox"/> 2. SUCTION                                    | <input type="checkbox"/> 3. GRAVITY | <input checked="" type="checkbox"/> 1. PRESSURIZED         | <input type="checkbox"/> 2. SUCTION                         | <input type="checkbox"/> 3. GRAVITY  |  |
| CONSTRUCTION   | <input type="checkbox"/> 1. SINGLE WALL                | <input type="checkbox"/> 2. LINED TRENCH                               | <input type="checkbox"/> 99. OTHER  | <input checked="" type="checkbox"/> 1. SINGLE WALL         | <input type="checkbox"/> 95. UNKNOWN                        | <input type="checkbox"/> 99. OTHER   |  |
| MANUFACTURER   | <input checked="" type="checkbox"/> 92. DOUBLE WALL    | <input type="checkbox"/> 95. UNKNOWN                                   |                                     | <input type="checkbox"/> 1.2. DOUBLE WALL                  | <input type="checkbox"/> 99. OTHER                          |                                      |  |
| MANUFACTURER JOOR  |  |  |                                     | MANUFACTURER   |   |                                      |  |
|  |  |  |                                     |  |   |                                      |  |
| MATERIALS AND CORROSION PROTECTION                         | <input type="checkbox"/> 1. BARE STEEL                 | <input checked="" type="checkbox"/> 6. FRP COMPATIBLE WITH NO METHANOL |                                     | <input type="checkbox"/> 1. BARE STEEL                     | <input type="checkbox"/> 6. FRP COMPATIBLE WITH NO METHANOL |                                      |  |
| <input type="checkbox"/> 95. UNKNOWN                       | <input checked="" type="checkbox"/> 2. STAINLESS STEEL | <input type="checkbox"/> 7. GALVANIZED STEEL                           |                                     | <input checked="" type="checkbox"/> 2. STAINLESS STEEL     | <input type="checkbox"/> 7. GALVANIZED STEEL                |                                      |  |
| <input type="checkbox"/> 3. PLASTIC COMPATIBLE W/ CONTENTS | <input type="checkbox"/> 8. FLEXIBLE (HDPE)            | <input type="checkbox"/> 9. CATHODIC PROTECTION                        |                                     | <input type="checkbox"/> 3. PLASTIC COMPATIBLE W/ CONTENTS | <input type="checkbox"/> 8. FLEXIBLE (HDPE)                 | <input type="checkbox"/> 95. UNKNOWN |  |
| <input type="checkbox"/> 4. FIBERGLASS                     |  |  |                                     | <input type="checkbox"/> 4. FIBERGLASS                     | <input type="checkbox"/> 9. CATHODIC PROTECTION             |                                      |  |
| <input type="checkbox"/> 5. STEEL COATING                  | <input type="checkbox"/> 99. OTHER                     |  |                                     | <input type="checkbox"/> 5. STEEL COATING                  | <input type="checkbox"/> 99. OTHER                          |                                      |  |

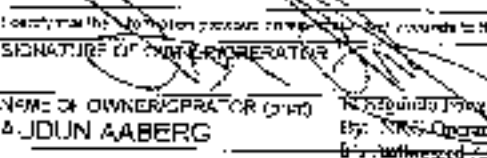
## VII. PIPING LEAK DETECTION (Check all that apply. If operation of the monitoring program needs to be submitted to the local agency)

| UNDERGROUND PIPING   |   | ABOVEGROUND PIPING |  |
|--|---|--------------------|--|
| <p style="text-align: center;"><b>SINGLE WALL PIPING</b></p> <p>PRESSURIZED PIPING (Check all that apply)</p> <p><input type="checkbox"/> 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS.</p> <p><input type="checkbox"/> 2. MONTHLY 0.2 GPH TEST</p> <p><input type="checkbox"/> 3. ANNUAL INTEGRITY TEST (0.1 GPH)</p> <p>CONVENTIONAL SUCTION SYSTEMS (Check all that apply)</p> <p><input type="checkbox"/> 5. DAILY VISUAL MONITORING OF PUMPING SYSTEM - TRIENNIAL PIPING INTEGRITY TEST (0.1 GPH)</p> <p>SAFE SUCTION SYSTEMS (NO VALVES IN BLOWN GROUND PIPING)</p> <p><input type="checkbox"/> 7. SELF MONITORING</p> <p>GRAVITY FLOW</p> <p><input type="checkbox"/> 9. BIENNIAL INTEGRITY TEST (0.1 GPH)</p> <p style="text-align: center;"><b>SECONDARILY CONTAINED PIPING</b></p> <p>PRESSURIZED PIPING (Check all that apply)</p> <p><input type="checkbox"/> 10. CONTINUOUS TURBINE PUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check one)</p> <p><input type="checkbox"/> a. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS</p> <p><input type="checkbox"/> b. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION</p> <p><input type="checkbox"/> c. NO AUTO PUMP SHUT OFF</p> <p><input checked="" type="checkbox"/> 11. AUTOMATIC LEAK DETECTOR (0.5 GPH TEST) WITH FLOW SHUT OFF</p> <p><input checked="" type="checkbox"/> 12. ANNUAL INTEGRITY TEST (0.1 GPH)</p> <p>SUCTION/GRAVITY SYSTEM</p> <p><input type="checkbox"/> 13. CONTINUOUS PUMP SENSOR + AUDIBLE AND VISUAL ALARMS</p> <p style="text-align: center;"><b>EMERGENCY GENERATORS ONLY (Check all that apply)</b></p> <p><input type="checkbox"/> 14. CONTINUOUS PUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS</p> <p><input type="checkbox"/> 15. AUTOMATIC LEAK DETECTOR (0.5 GPH) WITH FLOW SHUT OFF</p> <p><input type="checkbox"/> 16. ANNUAL INTEGRITY TEST (0.1 GPH)</p> <p><input type="checkbox"/> 17. DAILY VISUAL CHECK</p> | <p style="text-align: center;"><b>SINGLE WALL PIPING</b></p> <p>PRESSURIZED PIPING (Check all that apply)</p> <p><input type="checkbox"/> 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS.</p> <p><input type="checkbox"/> 2. MONTHLY 0.2 GPH TEST</p> <p><input type="checkbox"/> 3. ANNUAL INTEGRITY TEST (0.1 GPH)</p> <p><input checked="" type="checkbox"/> 4. DAILY VISUAL CHECK</p> <p>CONVENTIONAL SUCTION SYSTEMS (Check all that apply)</p> <p><input checked="" type="checkbox"/> 5. DAILY VISUAL MONITORING OF PUMPING AND PUMPING SYSTEM</p> <p><input type="checkbox"/> 6. TRIENNIAL INTEGRITY TEST (0.1 GPH)</p> <p>SAFE SUCTION SYSTEMS (NO VALVES IN BLOWN GROUND PIPING)</p> <p><input checked="" type="checkbox"/> 7. SELF MONITORING</p> <p>GRAVITY FLOW (Check all that apply)</p> <p><input type="checkbox"/> 8. DAILY VISUAL MONITORING</p> <p><input type="checkbox"/> 9. BIENNIAL INTEGRITY TEST (0.1 GPH)</p> <p style="text-align: center;"><b>SECONDARILY CONTAINED PIPING</b></p> <p>PRESSURIZED PIPING (Check all that apply)</p> <p><input type="checkbox"/> 10. CONTINUOUS TURBINE PUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check one)</p> <p><input type="checkbox"/> a. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS</p> <p><input type="checkbox"/> b. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION</p> <p><input type="checkbox"/> c. NO AUTO PUMP SHUT OFF</p> <p><input type="checkbox"/> 11. AUTOMATIC LEAK DETECTOR</p> <p><input type="checkbox"/> 12. ANNUAL INTEGRITY TEST (0.5 GPH)</p> <p>SUCTION/GRAVITY SYSTEM</p> <p><input type="checkbox"/> 13. CONTINUOUS PUMP SENSOR + AUDIBLE AND VISUAL ALARMS</p> <p style="text-align: center;"><b>EMERGENCY GENERATORS ONLY (Check all that apply)</b></p> <p><input type="checkbox"/> 14. CONTINUOUS PUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS</p> <p><input type="checkbox"/> 15. AUTOMATIC LEAK DETECTOR (0.5 GPH TEST)</p> <p><input type="checkbox"/> 16. ANNUAL INTEGRITY TEST (0.1 GPH)</p> <p><input type="checkbox"/> 17. DAILY VISUAL CHECK</p> |                    |  |

## VIII. DISPENSER CONTAINMENT

|                       |  |  |  |
|-----------------------|--|--|--|
| DISPENSER CONTAINMENT | <input type="checkbox"/> 1. FLOAT MECHANISM THAT SHUTS OFF SHEAR VALVE   | <input type="checkbox"/> 4. DAILY VISUAL CHECK       |  |
| DATE INSTALLED        | <input type="checkbox"/> 2. CONTINUOUS DISPENSER PAN SENSOR - AUDIBLE AND VISUAL ALARMS                                  | <input type="checkbox"/> 5. TRENCH TALKER MONITORING |  |
| N/A                   | <input type="checkbox"/> 3. CONTINUOUS DISPENSER PAN SENSOR WITH AUTO SHUT OFF FOR DISPENSER + AUDIBLE AND VISUAL ALARMS | <input type="checkbox"/> 6. NONE                     |  |

## IX. OWNER/OPERATOR SIGNATURE

|  |   |
|--|---|
| I hereby certify that the information provided on this form is true and accurate to the best of my knowledge.<br>SIGNATURE OF OWNER/OPERATOR:  | DATE: 3/25/04<br>TITLE OF OWNER/OPERATOR: REGIONAL PLANTS MANAGER |
| NAME OF OWNER/OPERATOR (PRINT): AJOUN AABERG   |   |

|                   |               |                 |                        |
|-------------------|---------------|-----------------|------------------------|
| OFFICIAL USE ONLY | Permit Number | Permit Approved | Permit Expiration Date |
|-------------------|---------------|-----------------|------------------------|

# UNIFIED PROGRAM (UP) FORM HAZARDOUS WASTE GENERATOR

PAGE 1 OF 1

BUSINESS NAME:

**EL SEGUNDO POWER, LLC**

FACILITY ID #

9013300011

1 NO. OF EMPLOYEES:

38

133: EPA ID #

CAR 000036848

## I. TYPE OF GENERATOR

PLEASE CHECK THE FOLLOWING BOXES THAT APPLY

|  | RCRA GENERATOR<br>(FEDERAL WASTE)   | NON RCRA GENERATOR<br>(CALIFORNIA WASTE ONLY) |
|--|-------------------------------------|---|
| LARGE QUANTITY GENERATOR<br>(≥1000 KG HAZARDOUS WASTE PER MONTH)                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>           |
| SMALL QUANTITY GENERATOR<br>(≥100 KG BUT <1000 KG HAZARDOUS WASTE PER MONTH)         | <input type="checkbox"/>            | <input type="checkbox"/>                      |
| CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR<br>(≤100 KG HAZARDOUS WASTE PER MONTH) | <input type="checkbox"/>            | <input type="checkbox"/>                      |

## II. WASTE STREAM IDENTIFICATION

PLEASE COMPLETE THE TABLE BELOW. SEE INSTRUCTIONS FOR CODES AND EXPLANATION.

| PROCESS   | WASTE DESCRIPTION  | WASTE ID    | AMOUNT<br>PER YEAR | DISPOSAL<br>METHOD | STORAGE<br>METHOD |
|---|--|-------------|--------------------|--------------------|-------------------|
| Haz Waste Liquid (Lead)                               | Wastewater w/lead  | 185         | 100 gallons        | Recycle            | Drums             |
| Haz Waste Solid (Cadmium)                             | Haz Waste Solid (Cadmium without sweep)                      | 181         | 3800 lbs           | Dispose            | Drums             |
| Haz Waste Solid (Lead)                                | Haz Waste Solid (Paint chips w/lead)                         | 181/223/252 | 22,930 lbs         | Dispose            | Drums             |
| Non RCRA haz waste liquid (kerosene)                  | Non RCRA haz waste liquid (kerosene)                         | 221         | 14,000 gallons     | Recycle            | Drums             |
| Non RCRA haz waste liquid (mineral oil)               | Non RCRA haz waste liquid (mineral oil) w/PCB's >5<50 ppm    | 261/223     | 33,000 gallons     | Recycle            | Drums             |
| Non RCRA haz waste liquid (oil/water)                 | Non RCRA haz waste liquid (oil/water)                        | 134/223     | 20,000 gallons     | Recycle            | Drums             |
| Non RCRA haz waste liquid (citric acid & water)       | Non RCRA haz waste liquid (citric acid & water)              | 131         | 205 gallons        | Recycle            | Drums             |
| Non RCRA haz waste solid (dust sweep/sand blast grit) | Non RCRA haz waste solid (dust sweep/sand blast grit w/lead) | 181/134/223 | 26,300 lbs         | Dispose            | Drums             |
| Non RCRA haz waste solid (soil, debris, oil)          | Non RCRA haz waste solid (soil, debris, oil)                 | 221         | 20,000 lbs         | Recycle            | Drums             |
| Non RCRA haz waste solid (lab pack)                   | Non RCRA haz waste solid (lab pack)                          | 331         | 100 lbs            | Recycle            | Drums             |
| Non RCRA haz waste solid (>5<50 ppm PCB's)            | Non RCRA haz waste solid (>5<50 ppm PCB's)                   | 251         | 330 lbs            | Recycle            | Drums             |
| Waste Asbestos Debris                                 | Waste Asbestos Debris  | 131         | 3,650 lbs          | Landfill           | Drums             |
| Waste Sulfuric Acid                                   | Waste Sulfuric Acid/Waste Battery Acid                       | 101         | 1,400 lbs          | Treat & Dispose    | Drums             |
| Waste caustic alkali, liquid (ammonium hydroxide)     | Waste caustic alkali, liquid (ammonium hydroxide)            | 551         | 50 gallons         | Recycle            | Drums             |
| Waste flammable liquid (lab pack)                     | Waste flammable liquid (lab pack)                            | 141/331     | 680 gallons        | Recycle            | Drums             |
| Waste Sodium Hydroxide solutions                      | Waste Sodium Hydroxide solutions                             | 131         | 200 lbs            | Recycle            | Drums             |
| Waste Mercury Thiocyanate                             | Waste Mercury Thiocyanate Debris                             | 181/223     | 410 lbs            | Landfill           | Drums             |
| Waste Mercury Thiocyanate Liquid                      | Waste Mercury Thiocyanate Liquid                             | 725         | 65 gallons         | Treat & Dispose    | Drums             |

# UNIFIED PROGRAM (UP) FORM HAZARDOUS WASTE GENERATOR

PAGE 2 OF 2

| A                              | B  | C        | D               | E               | F              | G |
|--------------------------------|--|----------|-----------------|-----------------|----------------|---|
| PROCESS                        | WASTE DESCRIPTION                              | WASTE ID | AMOUNT PER YEAR | DISPOSAL METHOD | STORAGE METHOD |   |
| Waste Flammable Solid, Organic | Waste Flammable Solid, Organic (Paint)         | 352      | 4150 lbs        | Recycle         | Drums          |   |
| Waste Flammable Liquid         | Waste Flammable Liquid (Waste paint & thinner) | 214      | 50 gallons      | Recycle         | Drums          |   |
| Waste Aerosol Cans             | Waste Aerosols                                 | 352      | 350 lbs         | Incinerate      | Drums          |   |
| Waste EDTA wastewater          | Waste EDTA wastewater                          | 135      | 500 lbs         | Recycle         | Drums          |   |
| Waste Lube Oil                 | Petroleum Distillates                          | 221      | 13,750 gallons  | Recycle         | Drums          |   |
| Waste Oil Filters              | Waste Oil Filters                              | 352      | 1500 lbs        | Treat & Dispose | Drums          |   |

I certify that the information provided herein is true and accurate to the best of my knowledge.

OWNER/OPERATOR NAME

El Segundo Power, LLC  
c/o NRG Operations, Inc.  
Authorized Agent

OWNER/OPERATOR TITLE

REGIONAL PLANTS MANAGER

OWNER/OPERATOR SIGNATURE

DATE

OFFICIAL USE ONLY

DATE RECEIVED

REVIEWED BY

CUPA

PA

DISTRICT

INSPECTOR

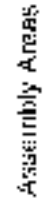
301 VISTA DEL MAR, EL SEGUNDO, CA 90245  
HAZARDOUS MATERIALS LOCATIONS



- 1 Administration
- 2 Units 1 & 2 (Retired)
- 3 Equipment Storage
- 4 Warehouse & Maintenance Shop
- 5 Units 3 & 4
- 6 Demetallizer Building (Retired)
- 7 Switchyard (Owned by So. Cal Edison)
- 8 Waste Water Retention Basin
- 9 Acid Retention Basin (Retired)
- 10 Security Guard Station
- 11 Chemical Storage Room
- 12 Technical Shop
- 13 Empty Barrier Storage
- 14 Brite Tank

- A Compressed Gas Bottles
- B Diesel Fuel & Gasoline
- C Lubricating Oil Storage
- D Hydrogen Storage
- E Sodium Hypochlorite
- F Sulfuric Acid (Retired)
- G Sodium Hydroxide (Retired)
- H Hazardous Waste Storage Area
- I Fuel Oil Tanks (Retired)
- J Trisodium Phosphate
- K Nitro Eliminator
- L Paints & Paint Thinner
- M Solvent Degreaser

- N Lubrication Oil Drums
- O Nalco 7330
- P Cutter Stock Storage Tank (Owned by Pacific Pipeline)
- Q Urea Storage Tanks (Retired)
- R Aqueous Ammonia Storage Tank
- S Aqueous Ammonia Injection Skid
- T Fuel Gas
- U Mineral Oil
- V Nalco BT-3000
- W Nitrogen
- X Grease



EL SEGUNDO POWER LLC  
Hazardous Materials Locations  
January 30, 2004

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(one page per material per building or room)

☐ ADD

☐ DELETE

☒ REVISE

REPORTING YEAR 2004

203

Page 1 of 56

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

SOUTHWEST OF WAREHOUSE, OTHER LOCATIONS

201 CHEMICAL LOCATION CONFIDENTIAL (HPCA) ☐ YES ☒ NO

FACILITY ID#

1 9 0 1 3 3 0 0 0 1 1

202 MAP# (optional)

203 GRID# (optional)

A

## II. CHEMICAL INFORMATION

CHEMICAL NAME

ACETYLENE (C2H2)

205 TRADE SECRET

☐ Yes ☒ No

COMMON NAME

207 HPS\*

☐ Yes ☒ No

CAS#

74-86-2

208 \*If EHS is "Yes", all amounts below must be in lbs

FIRE CODE HAZARD CLASSES (Complete if required by local law)

HAZARDOUS MATERIAL TYPE (Check one item only)

☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE

209 RADIOACTIVE ☐ Yes ☒ No

210 CURFS

PHYSICAL STATE (Check one item only)

☐ a. SOLID ☐ b. LIQUID ☒ c. GAS

211 LARGEST CONTAINER

282

RED HAZARD CATEGORIES

(Check all that apply)

☒ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

3530

212 MAXIMUM DAILY AMOUNT

10950

213 ANNUAL WASTE AMOUNT

N/A

214 STATE WASTE CODE

N/A

UNITS\*

(Check one item only)

☒ a. GALLONS ☒ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS

\*If POUNDS amount must be in pounds

215 DAYS ON SITE

365

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR  
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER  
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. 1015 LIN ☐  
☐ d. STEEL DRUM ☐ h. SLO ☒ l. CYLINDER ☐ p. TANK WAGON

STORAGE PRESSURE

☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☒ c. BELOW AMBIENT ☐ d. CRYOGENIC

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1 99.80

Acetylene

☐ Yes ☐ No

74-86-2

2 0.20

Acetate

☐ Yes ☐ No

67-54-1

3

☐ Yes ☐ No

4

☐ Yes ☐ No

5

☐ Yes ☐ No

\*These hazardous components are present at greater than 1% by weight if non-hazardous, or 0.1% by weight if carcinogenic, mutagenic and/or toxic solids of paper capturing the required information

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

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DATE RECEIVED

REVIEWED BY

ENV BN STA

CITY

DISTRICT

CUPA

PG

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(UPF 12/1699 Version) (See back of form for instructions)

☐ ADD

☐ DELETE

☒ REVISE

REPORTING YEAR 2004

Page 2 of 56

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)

9

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

201

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

202

UNDERGROUND STORAGE TANK NEAR GUARD SHACK

FACILITY ID #

1

9

0

1

3

3

0

0

1

1

MAHA (optional)

203

CRID# (optional)

204

S

## II. CHEMICAL INFORMATION

CHEMICAL NAME

205

TRADE SECRET ☐ Yes ☒ No

206

AMMONIUM HYDROXIDE (NH4OH)

COMMON NAME AQUEOUS AMMONIA

207

END ☐ Yes ☒ No

208

CAS#

209

\*If ZHS is "Yes", all amounts below must be in lbs.

210

HAZARD CODE HAZARD CLASSES (Complete if required by 29 CFR 1910.120)

211

HAZARDOUS MATERIAL TYPE (Check one box only)

☐ a. PURE

☒ b. MIXTURE

☐ c. WASTE

212

RADIOACTIVE ☐ Yes ☒ No

213

CORROS

214

PHYSICAL STATE (Check one item only)

☐ a. SOLID

☒ b. LIQUID

☐ c. GAS

215

LARGEST CONTAINER

216

PEC HAZARD CATEGORIES (Check all that apply)

☐ i. FIRE

☒ ii. REACTIVE

☐ iii. PRESSURE RELEASE

☒ iv. ACUTE HFA/TH

☐ v. CHRONIC HFA/TH

217

AVERAGE DAILY AMOUNT

218

MAXIMUM DAILY AMOUNT

219

ANNUAL WASTE AMOUNT

220

STATE WASTE CODE

221

15000

20000

N/A

N/A

UNITS\*

☒ a. GALLONS

☐ b. CUBIC FEET

☐ c. POUNDS

☐ d. TONS

222

DAYS ON SITE

223

\*Check one item only.

\*If ZHS amount must be in pounds.

STORAGE

CONTAINER

☐ a. ABOVE GROUND TANK

☐ b. PLASTIC NONMETALLIC DRUM

☐ i. FIBER DRUM

☐ m. GLASS BOTTLE

☐ n. RAIL CAR

☒ b. UNDERGROUND TANK

☐ f. CAN

☐ j. BAG

☐ o. PLASTIC BOTTLE

☐ p. OTHER

☐ c. TANK INSIDE BUILDING

☐ g. CARBOY

☐ k. BOX

☐ q. TOTE BIN

☐ d. STEEL DRUM

☐ h. SILO

☐ l. CYLINDER

☐ r. TANK WAGON

224

STORAGE PRESSURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

225

STORAGE TEMPERATURE

☐ a. AMBIENT

☐ b. ABOVE AMBIENT

☒ c. BELOW AMBIENT

☐ d. CRYOGENIC

226

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

PLUS

CAS #

1 28.00

Ammonium Hydroxide

227

☐ Yes ☐ No

228

1335-21-6

229

2 72.00

Water

230

☐ Yes ☐ No

231

7732-18-5

232

3

233

233

☐ Yes ☐ No

234

235

4

236

236

☐ Yes ☐ No

237

238

5

237

237

☐ Yes ☐ No

238

239

If more hazardous components are present at a level than 1% by weight of non-carcinogens, or 0.1% by weight of carcinogens, attach additional sheets of paper explaining the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

240

If EPCRA, Please Sign Here

(Facilities reporting chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

OFFICIAL USE ONLY

DATE RECEIVED

REVIEWED BY

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OTHER

DISTRICT

CUPA

PA

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(This page does not include submittal instructions)

☐ ADD

☐ UPDATE

☒ REVISE

REPORTING YEAR 2004

Page 3 of 55

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

WAREHOUSE, SOUTH SIDE AND OTHER LOCATIONS

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID # 1 9 0 1 3 3 0 0 0 1 1

MAP# (optional)

GRID# (optional)

A

## II. CHEMICAL INFORMATION

CHEMICAL NAME

ARGON

COMMON NAME

COMPRESSED ARGON GAS

CAS#

7440-37-1

FIRE CODE HAZARD CLASSES (See page 1 if required by EPCRA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☒ a. PURE

☐ b. MIXTURE

☐ c. WASTE

RADIOACTIVE ☐ Yes ☒ No

CURLS

PHYSICAL STATE (Check one item only)

☐ a. SOLID

☐ b. LIQUID

☒ c. GAS

LARGEST CONTAINER 232

EPC HAZARD CATEGORIES (Check all that apply)

☐ a. FIRE

☐ b. REACTIVE

☒ c. PRESSURE RELEASE

☒ d. ACUTE HEALTH

☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

850

MAXIMUM DAILY AMOUNT

1410

ANNUAL WASTE AMOUNT

N/A

STATE WASTE CODE

N/A

UNITS\* (Check one item only)

☒ a. GALLONS

☐ b. CUBIC FEET

☐ c. POUNDS

☐ d. TONS

DAYS ON SITE:

365

STORAGE

CONTAINER

☐ a. ABOVE GROUND TANK

☐ b. UNDERGROUND TANK

☐ c. TANK INSIDE BUILDING

☐ d. STEEL DRUM

☐ e. PLASTIC/NONMETALLIC DRUM

☐ f. CAN

☐ g. CARBOY

☐ h. SILO

☐ i. FIBER DRUM

☐ j. BAG

☐ k. BOX

☒ l. CYLINDER

☐ m. GLASS BOTTLE

☐ n. PLASTIC BOTTLE

☐ o. 10 LB BIN

☐ p. TANK WAGON

☐ q. RAIL CAR

☐ r. OTHER

STORAGE PRESSURE

☐ a. AMBIENT

☒ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☐ a. AMBIENT

☐ b. ABOVE AMBIENT

☒ c. BELOW AMBIENT

☐ d. CRYOGENIC

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1

ARGON

☐ Yes ☒ No

7440-37-1

2

☐ Yes ☐ No

3

☐ Yes ☐ No

4

☐ Yes ☐ No

5

☐ Yes ☐ No

These hazardous components are present in greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic. Attach and label sheets of paper containing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

EPCRA Please Sign Here

(Facilities reporting chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical)

OFFICIAL USE ONLY

DATE RECEIVED

REVIEWED BY

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OTHER

DISTRICT

CUPA

PA

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(Use only if authorized or certified by CUPA)

☐ ADD

☐ DELETE

☒ REVISE

REPORTING YEAR 2004

Page 4 of 58

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

HAZARDOUS WASTE STORAGE AREA & ACCUMULATION AREAS

FACILITY ID # 1 9 0 1 3 3 0 0 0 1 1

MAP# (optional)

GRID# (optional)

H

## II. CHEMICAL INFORMATION

CHEMICAL NAME

ASBESTOS

TRADE SECRET ☐ Yes ☒ No

If Subject to EPCRA, indicate restrictions

COMMON NAME WASTE ASBESTOS CONTAINING DEBRIS

EHS\*

☐ Yes ☒ No

CAS# 12001-29-5

\*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Concise if required by CUPA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. FUEL

☐ b. MIXTURE

☒ c. WASTE

211

RADIOACTIVE ☐ Yes ☒ No

212

CURIES

PHYSICAL STATE (Check one item only)

☒ a. SOLID

☐ b. LIQUID

☐ c. GAS

214

LARGEST CONTAINER 500

FED HAZARD CATEGORIES (Check all that apply)

☒ a. FIRE

☐ b. REACTIVE

☐ c. PRESSURE RELEASE

☐ d. ACUTE HEALTH

☒ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

217

2000

MAXIMUM DAILY AMOUNT

218

15000

ANNUAL WASTE AMOUNT

219

3,650

STATE WASTE CODE

151

UNITS\*

☐ a. GALLONS

☐ b. CUBIC FEET

☒ c. POUNDS

☐ d. TONS

DAYS ON SITE: 365

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK

☐ b. PLASTIC/METALLIC DRUM

☐ c. FIBER DRUM

☐ d. GLASS BOTTLE

☐ e. RAIL CAR

☐ f. UNDERGROUND TANK

☐ g. CAN

☐ h. BAG

☐ i. PLASTIC BOTTLE

☒ j. OTHER

☐ k. TANK INSIDE BUILDING

☐ l. CARBOY

☐ m. BOX

☐ n. TOTE BIN

Plastic Containers

☒ o. STEEL DRUM

☐ p. SLC

☐ q. CYLINDER

☐ r. TANK WAGON

STORAGE PRESSURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

☐ d. CRYOGENIC

| %WT   | HAZARDOUS COMPONENT (For mixture or waste only) | EHS  | CAS # |
|-------|---|--|-------|
| 1 226 |   | <input type="checkbox"/> Yes <input type="checkbox"/> No 227 | 228   |
| 2 226 |   | <input type="checkbox"/> Yes <input type="checkbox"/> No 227 | 228   |
| 3 224 |   | <input type="checkbox"/> Yes <input type="checkbox"/> No 227 | 228   |
| 4 220 |   | <input type="checkbox"/> Yes <input type="checkbox"/> No 227 | 228   |
| 5 242 |   | <input type="checkbox"/> Yes <input type="checkbox"/> No 227 | 228   |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical)

OFFICIAL USE ONLY

DATE RECEIVED

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CUPA

PA

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

Date of this revision: 06/20/2004

☐ ADD

☐ DELETE

☒ REVISE

REPORTING YEAR 2004

Page 5 of 26

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME in DSA – Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

☒ CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

HAZARDOUS WASTE STORAGE AREA

|              |   |   |   |   |   |   |   |   |   |   |   |                 |   |                  |   |
|--------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|------------------|---|
| FACILITY ID# | 1 | 9 | 0 | 1 | 3 | 3 | 0 | 0 | 1 | 1 | 1 | MAP# (optional) | 1 | GRID# (optional) | H |
|--------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|------------------|---|

## II. CHEMICAL INFORMATION

CHEMICAL NAME 206 TRADE SECRET ☐ Yes ☒ No 206

WASTE SULFURIC ACID

COMMON NAME 207 EHS ☐ Yes ☒ No 207

WASTE BATTERY ACID

CAS# 208 If EHS is "Yes", all amounts below must be in lbs. 208

FIRE CODE HAZARD CLASSES (Complete if necessary by CV 14)

|   |                                  |  |                                   |     |   |     |        |     |
|---|----------------------------------|--|-----------------------------------|-----|---|-----|--------|-----|
| HAZARDOUS MATERIAL TYPE (Check one item only) | <input type="checkbox"/> a. PURE | <input checked="" type="checkbox"/> b. MIXTURE | <input type="checkbox"/> c. WASTE | 211 | RADIOACTIVE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 212 | CORROS | 213 |
|---|----------------------------------|--|-----------------------------------|-----|---|-----|--------|-----|

|                                      |                                   |   |                                 |     |                   |    |     |
|--------------------------------------|-----------------------------------|---|---------------------------------|-----|-------------------|----|-----|
| PHYSICAL STATE (Check one item only) | <input type="checkbox"/> a. SOLID | <input checked="" type="checkbox"/> b. LIQUID | <input type="checkbox"/> c. GAS | 214 | LARGEST CONTAINER | 55 | 215 |
|--------------------------------------|-----------------------------------|---|---------------------------------|-----|-------------------|----|-----|

FED HAZARD CATEGORIES (Check all that apply) 216

☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

|                      |                      |                     |                  |
|----------------------|----------------------|---------------------|------------------|
| AVERAGE DAILY AMOUNT | MAXIMUM DAILY AMOUNT | ANNUAL WASTE AMOUNT | STATE WASTE CODE |
| 110                  | 110                  | 1400                | 181              |

|   |               |     |
|---|---------------|-----|
| UNITS (Check one item only)   | JAYS ON SITE: | 217 |
| <input checked="" type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS<br><small>If EHS, amount must be in pounds.</small> | 365           | 217 |

CONTAINER 220

|  |   |  |  |
|--|---|--|--|
| <input type="checkbox"/> a. ABOVE GROUND TANK    | <input checked="" type="checkbox"/> b. PLASTIC/NONMETALLIC DRUM | <input type="checkbox"/> c. FIBER DRUM | <input type="checkbox"/> d. GLASS BOTTLE   |
| <input type="checkbox"/> e. UNDERGROUND TANK     | <input type="checkbox"/> f. CAN                                 | <input type="checkbox"/> g. BAG        | <input type="checkbox"/> h. PLASTIC BOTTLE |
| <input type="checkbox"/> i. TANK INSIDE BUILDING | <input type="checkbox"/> j. CARBOY                              | <input type="checkbox"/> k. BOX        | <input type="checkbox"/> l. OTHER          |
| <input type="checkbox"/> m. STEEL DRUM           | <input type="checkbox"/> n. SLED                                | <input type="checkbox"/> o. CYLINDER   | <input type="checkbox"/> p. TANK WAGON     |

STORAGE PRESSURE 221

☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 222

☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

| # | %WT   | HAZARDOUS COMPONENT (For mixture or waste only) | FHS   | CAS # |
|---|-------|---|---|-------|
| 1 | 10.00 | Sulfuric Acid                                   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |
| 2 | 90.00 | Water   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |
| 3 |       |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |
| 4 |       |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |
| 5 |       |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |

If more hazardous components are present or present at 1% by weight of toxicologic agents, or 0.1% by weight of carcinogens, attach additional sheets of paper reporting the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(For EPCRA reporting chemicals subject to EPCRA, reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

|                   |    |     |       |               |      |             |  |
|-------------------|----|-----|-------|---------------|------|-------------|--|
| OFFICIAL USE ONLY |    |     |       | DATE RECEIVED |      | REVIEWED BY |  |
| DIV               | HN | STA | OTHER | DISTRICT      | CUFA | PA          |  |

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(For use with the material inventory annual)

☐ ADD

☐ DELETE

☒ REVISE

REPORTING YEAR 2004

Page 6 of 56

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

WAREHOUSE, SOUTHWEST SIDE, AND OTHER LOCATIONS

201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID#

1 9 0 1 3 3 0 0 0 1 1

MAP# (optional)

305

GRID# (optional)

A

## II. CHEMICAL INFORMATION

CHEMICAL NAME

HELIUM

206 TRADE SECRET

☐ Yes ☒ No

1 Subject to EPCRA, where no exceptions

COMMON NAME

COMPRESSED HELIUM GAS

207 EHS

☐ Yes ☒ No

CAS#

7440-59-7

208

1 If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE

211 RADIOACTIVE ☐ Yes ☒ No

212 CURIES

PHYSICAL STATE

(Check one item only)

☒ a. SOLID ☐ b. LIQUID ☐ c. GAS

214 LARGEST CONTAINER

282

FED HAZARD CATEGORIES

(Check all that apply)

☐ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

282

MAXIMUM DAILY AMOUNT

846

ANNUAL WASTE AMOUNT

N/A

STATE WASTE CODE

N/A

UNITS\*

(Check one item only)

☒ a. GALLONS ☒ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS

\* If CUBIC FEET, amount must be in pounds

209

DAYS ON SITE

365

STORAGE

CONTAINER

☐ a. ABOVE GROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☒ d. STEEL DRUM ☐ e. PLASTIC/METALLIC DRUM ☐ f. CAN ☐ g. CARRY ☐ h. SLO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☒ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON

STORAGE PRESSURE

☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☒ c. BELOW AMBIENT ☐ d. CRYOGENIC

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1

236

221

☐ Yes ☐ No

224

2

230

222

☐ Yes ☐ No

225

3

244

223

☐ Yes ☐ No

226

4

246

224

☐ Yes ☐ No

227

5

247

225

☐ Yes ☐ No

228

If there are hazardous components present at greater than 1% by weight of non-combustible, or 0.1% by weight of combustible, attach additional sheets of paper copying the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

Use separate materials listing, if more

☐ ADD

☐ DELETE

☒ REVISE

REPORTING YEAR 2004

200 Page 7 of 56

## 1. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)

**EL SEGUNDO POWER, LLC**

CHEMICAL LOCATION

HYDROGEN STORAGE AREA, UNIT #3 NORTHWEST SIDE, 8 384 GENERATORS

201 CHEMICAL LOCATION CONFIDENTIAL (CPCRA) ☐ YES ☒ NO

FACILITY ID #

1 9 0 1 3 3 0 0 0 1 1

202 MAP# (optional)

1

203 GRID# (optional)

0

## II. CHEMICAL INFORMATION

CHEMICAL NAME

**HYDROGEN**

204 TRADE SECRET ☐ Yes ☒ No  
If Subject to EPCRA, refer to instructions

COMMON NAME

**HYDROGEN COMPRESSED GAS**

205 EHS\* ☐ Yes ☒ No

CASE#

**1333740**

206 \*If EHS is "Yes", all amounts below must be in lbs

FIRE CODE HAZARD CLASSES (Complete if required by CDTA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE

207 RADIOACTIVE ☐ Yes ☒ No

208 CURIES

PHYSICAL STATE (Check one item only)

☐ a. SOLID ☐ b. LIQUID ☒ c. GAS

209 LARGEST CONTAINER 3500

FED HAZARD CATEGORIES (Check all that apply)

☒ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

30000

WAGURA DAILY AMOUNT

40000

ANNUAL WASTE AMOUNT

N/A

STATE WASTE CODE

N/A

UNITS\*

(Check one item only)

☐ a. GALLONS ☒ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS

\*If EHS, amount must be in pounds.

210 DAYS ON SITE:

365

STORAGE CONTAINER

☒ a. ABOVE GROUND TANK ☐ c. PLASTIC/METALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR  
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER  
☐ d. TANK INSIDE BUILDING ☐ g. CANNIST ☐ k. BOX ☐ o. TOTE BIN  
☐ e. STEEL DRUM ☐ h. SLO ☒ l. CYLINDER ☐ p. TANK WAGON

STORAGE PRESSURE

☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☒ c. BELOW AMBIENT ☐ d. CRYOGENIC

%Wt

HAZARDOUS COMPONENT (For mixture or waste only)

FHS

CAS #

1

226

227

☐ Yes ☐ No

228

229

2

227

228

☐ Yes ☐ No

229

230

3

224

226

☐ Yes ☐ No

227

231

4

225

220

☐ Yes ☐ No

221

241

5

242

243

☐ Yes ☐ No

244

245

Report hazardous components are present at greater than 1% by weight if both carcinogenic, or 0.1% by weight if carcinogenic, which requires sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

EPCRA Phase Sign Here

(Facilities reporting chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

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DATE RECEIVED

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(Use space for signature and date of report)

☐ ADD

☐ DELETE

☒ REVISE

REPORTING YEAR 2004

203 Page 8 of 86

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME on UFA – Doing Business As)

201

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

 205 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

206

LINTS 3 &amp; 4 LAB

FACILITY ID #

1 9 0 1 3 3 0 0 1 1

207 HAPs present

208 GRID# (optional)

H

## II. CHEMICAL INFORMATION

CHEMICAL NAME

MERCURY THIOCYANATE

 209 TRADE SECRET ☐ Yes ☒ No

210

COMMON NAME

WASTE MERCURY THIOCYANATE DEBRIS

211 EHS\*

☐ Yes ☒ No

212

GAS#

213 \*If EHS is "Yes", all amounts below must be in lbs

FIRE CODE HAZARD CLASSES (Complete if required by CCRP)

214

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE

 215 RADIOACTIVE ☐ Yes ☒ No

216 OTHER

PHYSICAL STATE (Check one item only)

☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

217 LARGEST CONTAINER

55

PEST HAZARD CATEGORIES (Check all that apply)

☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HUMAN TOX ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

100

218 MAXIMUM DAILY AMOUNT

440

219 ANNUAL WASTE AMOUNT

410

220 STATE WASTE CODE

181/725

UNITS\* (Check one item only)

☐ a. GALLONS ☐ b. CUBIC FEET ☒ c. POUNDS ☐ d. TONS

\* If EHS amount must be in pounds

221 DAYS ON SITE

365

STORAGE CONTAINER

☐ i. ABOVE GROUND TANK ☐ j. PLASTIC/MONOMETALLIC DRUM ☐ k. FIBER DRUM ☐ l. GLASS BOTTLE ☐ m. RAIL CAR  
☐ n. UNDERGROUND TANK ☐ o. CAN ☐ p. BAG ☐ q. PLASTIC BOTTLE ☐ r. OTHER  
☐ s. TANK INSIDE BUILDING ☐ t. CANNIST ☐ u. BOX ☐ v. TOTE BIN  
☐ w. STEEL DRUM ☐ x. PALLET ☐ y. CYLINDER ☐ z. TANK WAGON

STORAGE PRESSURE

☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1

222 Mercury Thiocyanate

223

☒ Yes ☐ No

224

2

225

226

☐ Yes ☐ No

227

3

228

229

☐ Yes ☐ No

230

4

231

232

☐ Yes ☐ No

233

5

234

235

☐ Yes ☐ No

236

If more hazardous components are present, list them in 1% by weight (or 0.1% by weight if carcinogenic, which additional sheets of paper describing are required information

ADDITIONAL LOCALLY COLLECTED INFORMATION

237

If EPCRA, Please Sign Here

(Facilities reporting chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material unit, including covers)

☐ ADD

☐ DELETE

☒ REVISE

REPORTING YEAR 2001

200 Page 9 of 55

## I. FACILITY INFORMATION

|  |   |   |   |   |   |   |   |   |   |     |
|--|---|---|---|---|---|---|---|---|---|-----|
| BUSINESS NAME (Same as FACILITY NAME on DSA - Using Business As) |   |   |   |   |   |   |   |   |   | 3   |
| EL SEGUNDO POWER, LLC  |   |   |   |   |   |   |   |   |   |     |
| CHEMICAL LOCATION  |   |   |   |   |   |   |   |   |   | 47  |
| HAZARDOUS WASTE STORAGE AREA                                     |   |   |   |   |   |   |   |   |   | 237 |
| FACILITY ID #  |   |   |   |   |   |   |   |   |   | 238 |
| 1  | 9 | 0 | 1 | 3 | 3 | 0 | 0 | 0 | 1 | 1   |
| EPA# (optional)  |   |   |   |   |   |   |   |   |   | 239 |
| 1  |   |   |   |   |   |   |   |   |   | 239 |
| GRID# (optional)   |   |   |   |   |   |   |   |   |   | 240 |
| U H  |   |   |   |   |   |   |   |   |   | 240 |

## II. CHEMICAL INFORMATION

| CHEMICAL NAME  |   |  |       |  |  |  |  |  |  | 245 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
|--|---|--|-------|--|--|--|--|--|--|-----|---|-----|-------|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|-----|
| WASTE MINERAL OIL W/PCB'S >5 PPM <50 PPM   |   |  |       |  |  |  |  |  |  | 245 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| COMMON NAME MINERAL OIL DEBRIS W/PCB'S >5 PPM <50 PPM  |   |  |       |  |  |  |  |  |  | 246 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| CAS#   |   |  |       |  |  |  |  |  |  | 248 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| FIRE CODE HAZARD CLASSES (Complete if not on CURS)   |   |  |       |  |  |  |  |  |  | 249 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| HAZARDOUS MATERIAL TYPE (Check one item only)  |   |  |       |  |  |  |  |  |  | 251 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| <input type="checkbox"/> a. PURE <input type="checkbox"/> b. MIXTURE <input checked="" type="checkbox"/> c. WASTE <input type="checkbox"/> d. RADIOACTIVE <input type="checkbox"/> e. CORROSIVE  |   |  |       |  |  |  |  |  |  | 251 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| PHYSICAL STATE (Check one item only)   |   |  |       |  |  |  |  |  |  | 252 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| <input type="checkbox"/> a. SOLID <input checked="" type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS <input type="checkbox"/> d. LARGEST CONTAINER    55  |   |  |       |  |  |  |  |  |  | 252 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| FED HAZARD CATEGORIES (Check all that apply)   |   |  |       |  |  |  |  |  |  | 253 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| <input checked="" type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE <input type="checkbox"/> d. ACUTE HEALTH <input checked="" type="checkbox"/> e. CHRONIC HEALTH   |   |  |       |  |  |  |  |  |  | 253 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| AVERAGE DAILY AMOUNT   |   |  |       |  |  |  |  |  |  | 254 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| 55   |   |  |       |  |  |  |  |  |  | 254 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| MAXIMUM DAILY AMOUNT   |   |  |       |  |  |  |  |  |  | 255 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| 110  |   |  |       |  |  |  |  |  |  | 255 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| ANNUAL WASTE AMOUNT  |   |  |       |  |  |  |  |  |  | 256 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| 300  |   |  |       |  |  |  |  |  |  | 256 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| STATE WASTE CODE   |   |  |       |  |  |  |  |  |  | 257 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| 251  |   |  |       |  |  |  |  |  |  | 257 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| UNITS* (Check one item only)   |   |  |       |  |  |  |  |  |  | 258 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| <input checked="" type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS <input type="checkbox"/> e. DAYS ON SITE*    365   |   |  |       |  |  |  |  |  |  | 258 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| STORAGE CONTAINER  |   |  |       |  |  |  |  |  |  | 259 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| <input type="checkbox"/> a. ABOVE GROUND TANK <input type="checkbox"/> b. PLASTIC/NONMETALLIC DRUM <input type="checkbox"/> c. FIBER DRUM <input type="checkbox"/> d. GLASS BOTTLE <input type="checkbox"/> e. RAIL CAR<br><input type="checkbox"/> f. UNDERGROUND TANK <input type="checkbox"/> g. CAN <input type="checkbox"/> h. BAG <input type="checkbox"/> i. PLASTIC BOTTLE <input checked="" type="checkbox"/> j. OTHER    RW<br><input type="checkbox"/> k. TANK INSIDE BUILDING <input type="checkbox"/> l. GARBOY <input type="checkbox"/> m. BOX <input type="checkbox"/> n. TOTE BIN<br><input checked="" type="checkbox"/> o. STEEL DRUM <input type="checkbox"/> p. SLO <input type="checkbox"/> q. CYLINDER <input type="checkbox"/> r. TANK WAGON                     |   |  |       |  |  |  |  |  |  | 259 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| STORAGE PRESSURE   |   |  |       |  |  |  |  |  |  | 260 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT   |   |  |       |  |  |  |  |  |  | 260 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| STORAGE TEMPERATURE  |   |  |       |  |  |  |  |  |  | 261 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC   |   |  |       |  |  |  |  |  |  | 261 |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>%WT</th> <th>HAZARDOUS COMPONENT (For mixture or waste only)</th> <th>EHS</th> <th>CAS #</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td></td> </tr> <tr> <td>2</td> <td></td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td></td> </tr> <tr> <td>3</td> <td></td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td></td> </tr> <tr> <td>4</td> <td></td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td></td> </tr> <tr> <td>5</td> <td></td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td></td> </tr> </tbody> </table> |   |  |       |  |  |  |  |  |  | %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # | 1 |  | <input type="checkbox"/> Yes <input type="checkbox"/> No |  | 2 |  | <input type="checkbox"/> Yes <input type="checkbox"/> No |  | 3 |  | <input type="checkbox"/> Yes <input type="checkbox"/> No |  | 4 |  | <input type="checkbox"/> Yes <input type="checkbox"/> No |  | 5 |  | <input type="checkbox"/> Yes <input type="checkbox"/> No |  | 262 |
| %WT  | HAZARDOUS COMPONENT (For mixture or waste only) | EHS  | CAS # |  |  |  |  |  |  |     |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| 1  |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |  |  |  |  |  |  |     |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| 2  |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |  |  |  |  |  |  |     |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| 3  |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |  |  |  |  |  |  |     |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| 4  |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |  |  |  |  |  |  |     |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |
| 5  |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |  |  |  |  |  |  |     |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |     |

\* Make Hazardous components and chemical greater than 1% by weight if for carcinogens, or 0.1% by weight for other chemicals. Attach additional sheets if space capturing the required information.

|  |     |
|--|-----|
| ADDITIONAL LOCALLY COLLECTED INFORMATION | 263 |
|--|-----|

If EPCRA, Please Sign Here  
 (Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

|                   |    |               |       |             |     |
|-------------------|----|---------------|-------|-------------|-----|
| OFFICIAL USE ONLY |    | DATE RECEIVED |       | REVIEWED BY |     |
| DIV               | BN | STA           | OTHER | DISTRICT    | CUA |
|                   |    |               |       |             | PA  |

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(Use separate forms for bulk liquid or solid)

☐ ADD

☐ DELETE

☒ REVISE

REPORTING YEAR 2004

40

Page 19 of 53

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

FL SEGUNDO POWER, LLC

CHEMICAL LOCATION

231

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

232

HAZARDOUS WASTE STORAGE AREA & ACCUMULATION AREAS

FACILITY ID #

1

9

0

1

3

3

0

0

0

1

1

MAP# (200-00)

GRID# (200-00)

H

234

## II. CHEMICAL INFORMATION

CHEMICAL NAME

235

TRADE SECRET ☐ Yes ☒ No

236

MINERAL SPIRITS (WASTE)

(Subject to EPCRA reporting requirements)

COMMON NAME WASTE PAINT & THINNER

237

ELHS ☐ Yes ☒ No

238

CAS#

239

\* If ELHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by DTP)

240

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. PURE

☐ b. MIXTURE

☒ c. WASTE

241

RADIOACTIVE ☐ Yes ☒ No

242

CURIES

243

PHYSICAL STATE (Check one item only)

☐ a. SOLID

☒ b. LIQUID

☐ c. GAS

244

LARGEST CONTAINER 55

245

FED HAZARD CATEGORIES (Check all that apply)

☒ a. FIRE

☐ b. REACTIVE

☐ c. PRESSURE RELEASE

☒ d. ACUTE HEALTH

☐ e. CHRONIC HEALTH

246

AVERAGE DAILY AMOUNT

247

MAXIMUM DAILY AMOUNT

248

ANNUAL WASTE AMOUNT

249

STATE WASTE CODE

250

55

110

55

214

UNITS (Check one item only)

☒ a. GALLONS

☐ b. CUBIC FEET

☐ c. POUNDS

☐ d. TONS

\* If ELHS amount must be in pounds.

DAYS ON SITE

252

365

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK

☐ e. PLASTIC/NONMETALLIC DRUM

☐ f. FIBER DRUM

☐ m. GLASS BOTTLE

☐ q. RAIL CAR

☐ b. UNDERGROUND TANK

☐ i. CAN

☐ j. BAG

☐ n. PLASTIC BOTTLE

☐ r. OTHER

☐ c. TANK INSIDE BUILDING

☐ g. CARBON

☐ k. BOX

☐ o. TOTE BIN

☒ d. STEEL DRUM

☐ h. SLO

☐ l. CYLINDER

☐ p. TANK WAGON

255

STORAGE PRESSURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

256

STORAGE TEMPERATURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

☐ d. CRYOGENIC

257

| %WT     | HAZARDOUS COMPONENT (For mixture or waste only) | ELHS  | CAS #      |
|---------|---|---|------------|
| 1 80.00 | Mineral Spirits (80-90%)                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 64742-88-7 |
| 2 10.00 | Aliphatic Petroleum Distillates (10-20%)        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 87062-41-3 |
| 3       |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |            |
| 4       |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |            |
| 5       |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |            |

If more hazardous components are present at greater than 1% by weight of non-carcinogens, or 0.1% by weight of carcinogens, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per physical building or area)

☐ ADD

☐ DELETE

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REPORTING YEAR 2004

Page 1 of 55

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

20 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

SOUTH OF UNIT #2

FACILITY ID# 1 9 0 1 3 3 0 0 0 1 1

MAN# (optional)

201 GRID# (optional)

1

## II. CHEMICAL INFORMATION

CHEMICAL NAME

MINERAL SPIRITS

205 TRADE SECRET ☐ Yes ☒ No

If Subject to EPCRA, refer to instructions

COMMON NAME

MINERAL SPIRITS

207 EHS ☐ Yes ☒ No

CAS#

64742887

209 If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (See page 1, Appendix A, CIPRA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. PURE ☒ c. MIXTURE

☐ d. WASTE

211 RADIOACTIVE ☐ Yes ☒ No

212 CURIES

PHYSICAL STATE (Check one item only)

☐ a. SOLID ☒ b. LIQUID

☐ c. GAS

214 LARGEST CONTAINER

55

FED HAZARD CATEGORIES (Check all that apply)

☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

55

217 MAXIMUM DAILY AMOUNT

220

219 ANNUAL WASTE AMOUNT

N/A

221 STATE WASTE CODE

N/A

UNITS\* (Check one item only)

☒ a. GALLONS

☐ b. CUBIC FEET

☐ c. POUNDS

☐ d. TONS

\* If EHS, amount must be in pounds.

223 DAYS ON SITE

365

STORAGE CONTAINER

☐ m. ABOVE GROUND TANK

☐ n. UNDERGROUND TANK

☐ o. TANK INSIDE BUILDING

☒ p. STEEL DRUM

☐ q. PLASTIC/METALLIC DRUM

☐ r. CAN

☐ s. CARTON

☐ t. SILE

☐ u. HELPER JUM

☐ v. BAG

☐ w. BOX

☐ x. CYLINDER

☐ y. GLASS BOTTLE

☐ z. PLASTIC BOTTLE

☐ aa. TOTE BIN

☐ ab. TANK WAGON

STORAGE PRESSURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

☐ d. CRYOGENIC

| SSWT | HAZARDOUS COMPONENT (For mixture or waste only) | FLIS  | CAS # |
|------|---|---|-------|
| 1    | 215   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 216   |
| 2    | 219   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 220   |
| 3    | 224   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 228   |
| 4    | 226   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 230   |
| 5    | 242   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 244   |

If any hazardous components are present at greater than 1% by weight of non-carcinogens or 0.1% by weight of carcinogens, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

IF EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(This page not included per building or area)

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REPORTING YEAR 2004

2.0

Page 17 of 50

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

LYNCR UNIT 8 BOILER

201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO 202

FACILITY ID # 1 9 0 1 3 3 0 0 0 1 1

203 MAP# (optional)

204

GR. C# (optional)

1

V

## II. CHEMICAL INFORMATION

CHEMICAL NAME

MODIFIED AMINO COMPOUND

COMMON NAME ELIMIN-OX OXYGEN SCAVENGER

CAS#

FIRE CODE HAZARD CLASSES (Complete if required by CUPA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. FLUFF

☒ b. MIXTURE

☐ c. WASTE

211

RADIOACTIVE ☐ Yes ☒ No

212

CURIES

PHYSICAL STATE (Check one item only)

☐ a. SOLID

☒ b. LIQUID

☐ c. GAS

214

LARGEST CONTAINER

220

FED HAZARD CATEGORIES (Check all that apply)

☐ a. FIRE

☐ b. REACTIVE

☒ c. PRESSURE RELEASE

☒ d. ACUTE HEALTH

☒ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

221

MAXIMUM DAILY AMOUNT

224

ANNUAL WASTE AMOUNT

229

STATE WASTE CODE

220

300

N/A

231

DAYS ON SITE

365

UNIT(S)

☒ a. GALLONS

☐ b. CUBIC FT.

☐ c. POUNDS

☐ d. TONS

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK

☐ b. UNDERGROUND TANK

☐ c. TANK INSIDE BUILDING

☐ d. STEEL DRUM

☐ e. PLASTIC/METALLIC DRUM

☐ f. CAN

☐ g. CARBON

☐ h. SLO

☐ i. FIBER DRUM

☐ j. BAG

☐ k. BOX

☐ l. CYLINDER

☐ m. GLASS BOTTLE

☐ n. PLASTIC BOTTLE

☒ o. TOTE BIN

☐ p. TANK WAGON

STORAGE PRESSURE

☐ a. AMBIENT

☒ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

☐ d. CRYOGENIC

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

CHS

CAS #

1 206 Carbohydrazide 207

☐ Yes ☐ No

208

497-18-7

2 209 Water 210

☐ Yes ☐ No

211

7732-18-6

3 212 213

☐ Yes ☐ No

214

4 215 216

☐ Yes ☐ No

217

5 218 219

☐ Yes ☐ No

220

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported substance.)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material or bulk storage unit)

☐ ADD

☐ DELETED

☒ REVISE

REPORTING YEAR 2004

Page 19 of 55

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

WAREHOUSE, SOUTHWEST SIDE

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID# 1 9 0 1 3 3 0 0 0 1 1

MAP# (optional)

1

GRID# (optional)

A

## II. CHEMICAL INFORMATION

CHEMICAL NAME

NITRIC OXIDE/NITROGEN (12.75 PPM)

TRADE SECRET ☐ Yes ☒ No

If Subject to EPCRA, inform manufacturer

COMMON NAME EPA PROTOCOL MIX

EHS\*

☐ Yes ☒ No

CAS#

\*If EHS is "Yes", all amounts below must be in lbs

FIRE CODE HAZARD CLASSES (Complete as required by GFA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE

RADIOACTIVE ☐ Yes ☒ No

CURIES

PHYSICAL STATE (Check one item only)

☐ a. SOLID ☐ b. LIQUID ☒ c. GAS

LARGEST CONTAINER

252

FED HAZARD CATEGORIES (Check all that apply)

☐ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

554

MAXIMUM DAILY AMOUNT

1210

ANNUAL WASTE AMOUNT

N/A

STATE WASTE CODE

N/A

UNITS\*

☐ a. GALLONS ☒ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS

(Check one item only)

\*If EHS, amount must be in pounds.

DAYS ON SITE

365

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK  
☐ b. UNDERGROUND TANK  
☐ c. TANK INSIDE BUILDING  
☐ d. STEEL DRUM

☐ e. PLASTIC/NONMETALLIC DRUM  
☐ f. CAN  
☐ g. CARBOY  
☐ h. BULK

☐ i. FIBER DRUM  
☐ j. BAG  
☐ k. BOX  
☒ l. CYLINDER

☐ m. GLASS BOTTLE  
☐ n. PLASTIC BOTTLE  
☐ o. TOTE BIN  
☐ p. TANK WAGON

STORAGE PRESSURE

☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☒ c. BELOW AMBIENT ☐ d. CRYOGENIC

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1 0.02

Nitric Oxide (125 ppm)

☐ Yes ☐ No

10102-43-9

2 99.98

Nitrogen

☐ Yes ☐ No

7727-37-9

3

☐ Yes ☐ No

4

☐ Yes ☐ No

5

☐ Yes ☐ No

If non-hazardous components are present at greater than 1% by weight of non-hazardous, or 0.1% by weight of carcinogenic, attach additional sheets of paper capturing this prohibited information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(Use only one number of this page in total)

☐ ADD

☐ DELETE

☒ REVISE

REPORTING YEAR 2001

202

Page 14 of 58

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

UNIT #3 NORTH SIDE STORAGE AREA, WAREHOUSE & MISC

201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID #

1 9

0 1 3

3 0 0

0 1 1

MAP# (optional)

1

203 GRID# (optional)

W

## II. CHEMICAL INFORMATION

CHEMICAL NAME

NITROGEN

205 TRADE SECRET ☐ Yes ☒ No

COMMON NAME

NITROGEN COMPRESSED GAS

207 EHS\* ☐ Yes ☒ No

CASE#

7727-37-9

209 \*If EHS is "Yes", all amounts below must be in lbs

FIRE CODE HAZARD CLASSES (Complete if required by CHTA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE

211 RADIOACTIVE ☐ Yes ☒ No

213 DYES

PHYSICAL STATE (Check one item only)

☐ a. SOLID ☐ b. LIQUID ☒ c. GAS

215 LARGEST CONTAINER 141265

FED HAZARD CATEGORIES (Check all that apply)

☐ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

100000

217 MAXIMUM DAILY AMOUNT

141265

219 ANNUAL WASTE AMOUNT

N/A

221 STATE WASTE CODE

N/A

UNITS\*

☐ a. GALLONS ☒ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS

(Check one item only)

\*If EHS, amount must be in pounds

STORAGE

CONTAINER

☒ a. ABOVE GROUND TANK ☐ e. PLASTIC/METALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR  
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER  
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN  
☐ d. STEEL DRUM ☐ h. SILO ☒ l. CYLINDER ☐ p. TANK WAGON

STORAGE PRESSURE

☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☒ d. CRYOGENIC

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS   | CAS # |
|-----|---|---|-------|
| 1   |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |
| 2   |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |
| 3   |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |
| 4   |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |
| 5   |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |

If non-hazardous components are present at greater than 1% by weight (1 non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper containing this required information)

ADDITIONAL FACILITY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA report chemical)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(this page contains the chemical description)

☐ ADD

☐ DELETE

☒ REVISE

REPORTING YEAR 2004

Page 15 of 58

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)

FL SEGUNDO POWER, LLC

CHEMICAL LOCATION

WAREHOUSE, SOUTH WEST SIDE & OTHER LOCATIONS

CHEMICAL LOCATION CONFIDENTIAL (HPCRA) ☐ YES ☒ NO

FACILITY ID# 1 9 0 1 3 3 0 0 0 1 1

MAP# (optional) 1

GRID# (optional) A

## II. CHEMICAL INFORMATION

CHEMICAL NAME

NITROGEN/OXYGEN MIXTURE (17% O2)

COMMON NAME

EPA PROTOCOL MIX

CAS#

FIRE CODE HAZARD CLASSIFI (Complete if required by OSHA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE

PHYSICAL STATE (Check one item only)

☐ a. SOLID ☐ b. LIQUID ☒ c. GAS

FED HAZARD CATEGORIES (Check all that apply)

☐ a. HIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEAS ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

282

WEEKLY DAILY AMOUNT

1410

ANNUAL WASTE AMOUNT

N/A

STATE WASTE CODE

N/A

UNITS\*

☐ a. GALLONS ☒ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS

(Check one item only)

\* If EHS, amount must be in pounds.

DAYS ON SITE: 365

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK ☐ c. PLASTIC/METALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ o. RAL GAR  
☐ b. UNDERGROUND TANK ☐ l. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ p. OTHER  
☐ e. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN  
☐ d. STEEL DRUM ☐ f. SLO ☒ l. CYLINDER ☐ p. TANK WAGON

STORAGE PRESSURE

☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☒ c. BELOW AMBIENT ☐ d. CRYOGENIC

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1 17.00

Oxygen

☐ Yes ☐ No

7782-44-7

2 83.00

Nitrogen

☐ Yes ☐ No

7727-37-9

3

☐ Yes ☐ No

4

☐ Yes ☐ No

5

☐ Yes ☐ No

If any hazardous components are present in greater than 1% by weight of non-hazardous, or 0.1% by weight of carcinogenic, attach and label sheets of paper explaining the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

TEPCRA, Please Sign Here

If facilities reporting chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each HPCRA reported chemical.

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD

☐ DELETE

☒ (X) REVISE

REPORTING YEAR 2004

200

Page 16 of 56

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA, Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

WAREHOUSE, SOUTHWEST SIDE

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID#

1

9

0

1

3

3

0

0

0

1

1

MAP# (optional)

1

GRID# (optional)

A

## II. CHEMICAL INFORMATION

CHEMICAL NAME

NITROGEN/OXYGEN MIXTURE (1% O2)

COMMON NAME

EPA PROTOCOL MIX

CAS#

FIRE CODE HAZARD CLASSES (Description required by EPCRA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. PURE

☒ b. MIXTURE

☐ c. WASTE

RADIOACTIVE ☐ Yes ☒ No

PHYSICAL STATE (Check one item only)

☐ a. SOLID

☐ b. LIQUID

☒ c. GAS

LABELS ON CONTAINER

ILC HAZARD CATEGORIES (Check all that apply)

☐ a. FIRE

☐ b. REACTIVE

☒ c. PRESSURE RELEASE

☒ d. ACUTE HEALTH

☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

262

MAXIMUM DAILY AMOUNT

564

ANNUAL WASTE PRODUCTION

N/A

STATE WASTE CODE

N/A

UNITS\* (Check one item only)

☒ a. GALLONS

☒ b. CUBIC FEET

☐ c. POUNDS

☐ d. TONS

DAYS ON SITE:

365

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK

☐ b. UNDERGROUND TANK

☐ c. TANK INSIDE BUILDING

☐ d. STEEL DRUM

☐ e. PLASTIC/METALLIC DRUM

☐ f. CAN

☐ g. CARBOY

☐ h. SILD

☐ i. FIBER DRUM

☐ j. BAG

☐ k. BOX

☐ l. CYLINDER

☐ m. GLASS BOTTLE

☐ n. PLASTIC BOTTLE

☐ o. TOTE BIN

☐ p. TANK WAGON

STORAGE PRESSURE

☐ a. AMBIENT

☒ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☐ a. AMBIENT

☐ b. ABOVE AMBIENT

☒ c. BELOW AMBIENT

☐ d. CRYOGENIC

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

THIS

CAS #

1 1.00

Oxygen

☐ Yes ☐ No

7782-44-7

2 99.00

Nitrogen

☐ Yes ☐ No

7727-37-9

3

☐ Yes ☐ No

4

☐ Yes ☐ No

5

☐ Yes ☐ No

From hazardous components are present at concentration by weight from carcinogenic, or 0.1% by weight of carcinogenic, other and/or listed or listed carcinogen by the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Persons reporting chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(one page per material per reporting unit)

☐ ADD

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REPORTING YEAR 2004

Page 17 of 56

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

WAREHOUSE, SOUTHWEST SIDE

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID #

1 9 0 1 3 3 0 0 0 1 1

MAP# (optional)

1

GIS# (optional)

A

## II. CHEMICAL INFORMATION

CHEMICAL NAME

NITROGEN/OXYGEN MIXTURE (8.5% O2)

TRADE SECRET ☐ Yes ☒ No

If Susceptible to EPCRA, indicate concentration

COMMON NAME

OXYGEN MIX

EHS#

☐ Yes ☒ No

CAS#

If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE

RADIOACTIVE ☐ Yes ☒ No

COPIES

PHYSICAL STATE (Check one item only)

☐ a. SOLID ☐ b. LIQUID ☒ c. GAS

LARGEST CONTAINER

282

PCP HAZARD CATEGORIES (Check all that apply)

☐ a. FLAM ☐ b. REACTIVE ☒ c. DEFERRABLE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

564

MAXIMUM DAILY AMOUNT

1410

ANNUAL WASTE AMOUNT

N/A

STATE WASTE CODE

N/A

UNITS

☐ a. GALLONS ☒ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS

If EHS, amount must be in pounds

DAYS ON SITE

365

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☐ e. PLASTIC/METAL DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SLO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☒ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. OTHER ☐ p. TOTE BIN ☐ q. RAIL CAR

STORAGE PRESSURE

☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☒ c. BELOW AMBIENT ☐ d. CRYOGENIC

| %WT     | HAZARDOUS COMPONENT (For mixture or waste only) | EHS   | CAS #     |
|---------|---|---|-----------|
| 1 8.50  | Oxygen  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 7782-44-7 |
| 2 91.50 | Nitrogen  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 7727-37-9 |
| 3       |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |           |
| 4       |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |           |
| 5       |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |           |

If more hazardous components are present at greater than 1% by weight of non-carcinogenic, or 0.1% by weight of carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(one page per chemical, not including cover)

☐ ADD ☐ DELETE ☒ REVISE REPORTING YEAR 2024 Page 10 of 50

## I. FACILITY INFORMATION

|   |  |  |  |  |  |  |  |  |  |     |  |   |     |
|---|--|--|--|--|--|--|--|--|--|-----|--|---|-----|
| BUSINESS NAME (Same as FACILITY NAME or DBA - During Business As) |  |  |  |  |  |  |  |  |  |     |  | 2 |     |
| EL SEGUNDO POWER, LLC   |  |  |  |  |  |  |  |  |  |     |  |   |     |
| CHEMICAL LOCATION   |  |  |  |  |  |  |  |  |  | 201 | CHEMICAL LOCATION CONFIDENTIAL (EPCRA) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |   | 202 |
| HAZARDOUS WASTE AREA & JOB LOCATION                               |  |  |  |  |  |  |  |  |  |     |  |   |     |
| FACILITY ID# 1 9 0 1 3 3 0 0 0 1 1                                |  |  |  |  |  |  |  |  |  | 203 | MAP# (optional) 1  |   | 204 |
|   |  |  |  |  |  |  |  |  |  | 205 | GRID# (optional) 11  |   |     |

## II. CHEMICAL INFORMATION

| CHEMICAL NAME   |   |  |       |  |  |  |  |  |  | 205  | TRADE SECRET <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |      | 206   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |
|---|---|--|-------|--|--|--|--|--|--|--|--|------|---|-----|-------|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|
| OIL FILTERS   |   |  |       |  |  |  |  |  |  | If Subject to EPCRA, refer to instructions |  |      |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |
| COMMON NAME WASTE OIL FILTERS   |   |  |       |  |  |  |  |  |  | 207  | EHS# <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No         |      | 208   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |
| CAS# 8002-05-9  |   |  |       |  |  |  |  |  |  | 209  | If EHS is "Yes", all amounts below must be in lbs.                               |      |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |
| FIRE CODE HAZARD CLASS-S (Complete response to 2020)  |   |  |       |  |  |  |  |  |  |  |  | 210  |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |
| HAZARDOUS MATERIAL TYPE (Check one item only) <input type="checkbox"/> a. PURE <input type="checkbox"/> b. MIXTURE <input checked="" type="checkbox"/> c. WASTE   |   |  |       |  |  |  |  |  |  | 211  | RADIOACTIVE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  |      | 212   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |
| PHYSICAL STATE (Check one item only) <input checked="" type="checkbox"/> a. SOLID <input type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS  |   |  |       |  |  |  |  |  |  | 213  | LARGEST CONTAINER 400  |      | 214   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |
| FED HAZARD CATEGORIES (Check all that apply) <input checked="" type="checkbox"/> a. FL <input type="checkbox"/> b. REACT <input type="checkbox"/> c. PRESSURE RELEASE <input checked="" type="checkbox"/> d. ACUTE HEALTH <input type="checkbox"/> e. CHRONIC HEALTH  |   |  |       |  |  |  |  |  |  | 215  |  |      | 216   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |
| AVERAGE DAILY AMOUNT 400  |   |  |       |  |  |  |  |  |  | 217  | MAXIMUM DAILY AMOUNT 800   |      | 218   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |
|   |   |  |       |  |  |  |  |  |  | 219  | ANNUAL WASTE AMOUNT 1500   |      | 220   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |
|   |   |  |       |  |  |  |  |  |  | 221  | STATE WASTE CODE 352   |      | 222   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |
| UNITS* (Check one item only) <input type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input checked="" type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS  |   |  |       |  |  |  |  |  |  | 223  | DAYS ON SITE 355   |      | 224   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |
| STORAGE CONTAINER <input type="checkbox"/> a. ABOVE GROUND TANK <input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> c. TANK INSIDE BUILDING <input checked="" type="checkbox"/> d. STEEL DRUM <input type="checkbox"/> e. PLASTIC/METALLIC DRUM <input type="checkbox"/> f. CAN <input type="checkbox"/> g. CARBOY <input type="checkbox"/> h. SLO <input type="checkbox"/> i. FIBER DRUM <input type="checkbox"/> j. BAG <input type="checkbox"/> k. BOX <input type="checkbox"/> l. CYLINDER <input type="checkbox"/> m. GLASS BOTTLE <input type="checkbox"/> n. TOTE BIN <input type="checkbox"/> o. TANK WAGON <input type="checkbox"/> p. DRUM CAN <input type="checkbox"/> q. OTHER  |   |  |       |  |  |  |  |  |  | 225  |  |      | 226   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |
| STORAGE PRESSURE <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT   |   |  |       |  |  |  |  |  |  | 227  |  |      | 228   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |
| STORAGE TEMPERATURE <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC  |   |  |       |  |  |  |  |  |  | 229  |  |      | 230   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>%WWT</th> <th>HAZARDOUS COMPONENT (For mixture or waste only)</th> <th>EHS</th> <th>CAS #</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td></td> </tr> <tr> <td>2</td> <td></td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td></td> </tr> <tr> <td>3</td> <td></td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td></td> </tr> <tr> <td>4</td> <td></td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td></td> </tr> <tr> <td>5</td> <td></td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td></td> </tr> </tbody> </table> |   |  |       |  |  |  |  |  |  |  |  | %WWT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS | CAS # | 1 |  | <input type="checkbox"/> Yes <input type="checkbox"/> No |  | 2 |  | <input type="checkbox"/> Yes <input type="checkbox"/> No |  | 3 |  | <input type="checkbox"/> Yes <input type="checkbox"/> No |  | 4 |  | <input type="checkbox"/> Yes <input type="checkbox"/> No |  | 5 |  | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |
| %WWT  | HAZARDOUS COMPONENT (For mixture or waste only) | EHS  | CAS # |  |  |  |  |  |  |  |  |      |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |
| 1   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |  |  |  |  |  |  |  |  |      |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |
| 2   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |  |  |  |  |  |  |  |  |      |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |
| 3   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |  |  |  |  |  |  |  |  |      |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |
| 4   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |  |  |  |  |  |  |  |  |      |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |
| 5   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |  |  |  |  |  |  |  |  |      |   |     |       |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |   |  |  |  |

If only hazardous components are present at greater than 1% by weight of non-hazardous, or 0.1% by weight of carcinogenic, attach additional sheets of paper explaining the required information.

### ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

|                   |    |               |       |          |             |    |  |
|-------------------|----|---------------|-------|----------|-------------|----|--|
| OFFICIAL USE ONLY |    | DATE RECEIVED |       |          | REVIEWED BY |    |  |
| DIV               | EN | STA           | OTHER | DISTRICT | CUPA        | PA |  |

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

Form 400a (01/01/01) (Public Use Only) (01/01/01)

☐ ADD

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REPORTING YEAR 2004

2.0 Page 15 of 56

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DSA - Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

WAREHOUSE, SOUTHWEST SIDE

231 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID #

1 9 0 1 3 3 0 0 0 1 1

233 MAP# (optional)

1

234 GRID# (optional)

A

## II. CHEMICAL INFORMATION

CHEMICAL NAME

OXIDES OF NITROGEN (34 PPM)

235 TRADE SECRET ☐ Yes ☒ No

\* Subj. to EPCRA, refer to instructions

COMMON NAME OXIDES OF NITROGEN MIX

237 EHS\* ☐ Yes ☒ No

CAS#

239 \*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by DSA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. POUL ☒ b. MATERIAL ☐ c. WASTE

241 RAD. ACTIVE ☐ Yes ☒ No

242 CORROS

PHYSICAL STATE (Check one item only)

☐ a. SOLID ☐ b. LIQUID ☒ c. GAS

244 LARGEST CONTAINER

PPH HAZARD CATEGORIES (Check all that apply)

☐ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

1000

247 MAXIMUM DAILY AMOUNT

1410

248 ANNUAL WASTE AMOUNT

N/A

249 STATE WASTE CODE

N/A

UNITS\*

(Check one item only)

☐ a. GALLONS ☒ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS

\* If EHS, amount must be in pounds

251 DAYS ON SITE

365

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK ☐ e. PLASTIC NONMETALLIC DRUM ☐ i. TIERED DRAW ☐ m. GLASS BOTTLE ☐ o. RAIL CAR  
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ p. OTHER  
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN  
☐ d. STEEL DRUM ☐ h. SILO ☒ l. CYLINDER ☐ q. TANK WAGON

STORAGE PRESSURE

☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☒ c. BELOW AMBIENT ☐ d. CRYOGENIC

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1 0.01

Nitric Acid (34 ppm)

257 ☐ Yes ☐ No

258 10102-43-0

2 99.99

Nitrogen

261 ☐ Yes ☐ No

262 7727-37-6

3

263 ☐ Yes ☐ No

264

4

265 ☐ Yes ☐ No

266

5

267 ☐ Yes ☐ No

268

If more hazardous components are present at greater than 1% by weight of non-carcinogenic, and 1% by weight of carcinogenic, attach additional sheets or paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material per reporting year)

☐ ADD

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REPORTING YEAR 2024

PC2

Page 20 of 56

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

WAREHOUSE, SOUTHWEST SIDE

201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID #

1 9 0 1 3 3 0 0 0 1 1

MAP# (optional)

203

GRID# (optional)

204

1

A

## II. CHEMICAL INFORMATION

CHEMICAL NAME

OXIDES OF NITROGEN (59.50 PPM)

205 TRANS-SHORE? ☐ Yes ☒ No

(Subject to EPCRA, refer to instructions)

COMMON NAME

OXIDES OF NITROGEN MIX

207 EHS? ☐ Yes ☒ No

CAS#

208 \*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CWA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

211

RADIOACTIVE ☐ Yes ☒ No

212

CURIES

PHYSICAL STATE (Check one item only)

☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

214

LARGEST CONTAINER

282

FED HAZARD CATEGORIES (Check all that apply)

☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

217 MAXIMUM DAILY AMOUNT

218

ANNUAL WASTE AMOUNT

219 STATE WASTE CODE

220

800

112B

N/A

N/A

UNITS\* (Check one item only)

☐ a. GALLONS ☒ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS

\*If LBS, amount must be in pounds

221

DAYS ON SITE

365

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/METALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR  
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. GAS ☐ n. PLASTIC BOTTLE ☐ r. OTHER  
☐ c. TANK INSIDE BUILDING ☐ g. CARRON ☐ k. BUA ☐ o. TOTE BIN  
☐ d. STEEL DRUM ☐ h. SLO ☒ l. CYLINDER ☐ p. TANK WAGON

STORAGE PRESSURE

☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☒ c. BELOW AMBIENT ☐ d. CRYOGENIC

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

< 0.01 226 Nitric Oxide (59.50 ppm)

☐ Yes ☒ No

10102-43-9

> 99.99 230 Nitrogen

☐ Yes ☒ No

7727-37-9

2 234

☐ Yes ☒ No

235

4 238

☐ Yes ☒ No

240

5 242

☐ Yes ☒ No

244

If more hazardous components are present at greater than 1% by weight if non-hazardous, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(Use page 1a if 2nd, 3rd building or room)

☐ ADD

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REPORTING YEAR 2014

200

Page 2<sup>nd</sup> of 55

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

WAREHOUSE, SOUTHWEST SIDE

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID#

1 9 0 1 3 0 0 0 1 1

MAP# (optional)

1

13RILE# (optional)

A

## II. CHEMICAL INFORMATION

CHEMICAL NAME

OXIDES OF NITROGEN (125 PPM)

COMMON NAME

OXIDES OF NITROGEN MIX

CAS#

FIRE CODE HAZARD CLASSES (Identify frequency by CLP#)

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE

PHYSICAL STATE (Check one item only)

☐ a. SOLID ☐ b. LIQUID ☒ c. GAS

FED HAZARD CATEGORIES (Check all that apply)

☐ a. FRP ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

1030

MAXIMUM DAILY AMOUNT

1410

ANNUAL WASTE AMOUNT

N/A

STATE WASTE CODE

N/A

UNIT(S)

(Check one item only)

☐ a. GALLONS ☒ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS

\* If CFS, amount must be in pounds

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK ☐ a. PLASTIC/NOVELLALIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR  
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER  
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN  
☐ d. STEEL DRUM ☐ h. SLO ☒ l. CYLINDER ☐ p. TANK WAGON

STORAGE PRESSURE

☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☒ c. BELOW AMBIENT ☐ d. CRYOGENIC

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1 0.01

Nitric Oxide (125 ppm)

☐ Yes ☐ No

10102-43-9

2 99.99

Nitrogen

☐ Yes ☐ No

7727-37-9

3

☐ Yes ☐ No

4

☐ Yes ☐ No

5

☐ Yes ☐ No

If more hazardous components are present at greater than 1% by weight of known carcinogens, or 1% by weight of carcinogens, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(See page for material per EPCRA rules)

☐ ADD ☐ DELETE ☒ REVISE REPORTING YEAR 2004 200 Page 22 of 56

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or ORA Doing Business As) 200

EL SEGUNDO POWER LLC

CHEMICAL LOCATION 201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO 202

WAREHOUSE, SOUTH SIDE, MAINTENANCE SHOP & JOB LOCATION

FACILITY ID # 1 9 0 1 3 3 0 0 0 1 1 MAP# (optional) 203 CHRI# (optional) 204  
1 A

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205 TRADE SECRET ☐ Yes ☒ No 206

OXYGEN

COMMON NAME COMPRESSED OXYGEN GAS 207 EHS ☐ Yes ☒ No 208

CASE 7782-44-7 209 \*If EHS is "Yes", all amounts below must be in lbs. 210

FIRE CODE HAZARD CLASSES (Complete if required by OSHA) 211

HAZARDOUS MATERIAL TYPE (Check one item only) ☒ a. FLAM ☐ b. MAJOR ☐ c. WASTE 212 RADIOACTIVE ☐ Yes ☒ No 213 CURIES 214

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☐ b. LIQUID ☒ c. GAS 215 LARGEST CONTAINER 2B2 216

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FLAM ☐ b. REACT ☒ c. PRESSURE RELEASE ☒ d. ACUTE TOXIC ☐ e. CHRONIC HEALTH 217

AVERAGE DAILY AMOUNT 218 MAXIMUM DAILY AMOUNT 219 ANNUAL WASTE AMOUNT 220 STATE WASTE CODE 221  
112B 388B N/A N/A

UNITS\* (Check one item only) ☐ a. GALLONS ☒ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 222 DAYS ON SITE 223  
\* If E-5, amount must be in pounds. 365

CONTAINER ☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ o. RAIL CAR ☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ p. OTHER ☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ a. POTE BIN ☐ d. STEEL DRUM ☐ h. SLO ☒ l. CYLINDER ☐ o. TANK WAGON 224

STORAGE PRESSURE ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 225

STORAGE TEMPERATURE ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☒ c. BELOW AMBIENT ☐ d. CRYOGENIC 226

| %WT   | HAZARDOUS COMPONENT (For mixture or waste only) | EHS   | CAS # |
|-------|---|---|-------|
| 1 228 |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 229 | 230   |
| 2 231 |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 232 | 233   |
| 3 234 |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 235 | 236   |
| 4 238 |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 239 | 240   |
| 5 242 |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 243 | 244   |

If more hazardous components are present at greater than 1% by weight if non-caustic, or 0.1% by weight if caustic, check additional sheets of paper capturing the required information. 245

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here  
(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical)

|                   |    |               |       |             |      |
|-------------------|----|---------------|-------|-------------|------|
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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building area)

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REPORTING YEAR 2004

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## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

SOUTH OF UNIT #2

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID #

1 9 0 1 3 3 0 0 0 1 1

MAP# (optional)

1

GRID# (optional)

L

## II. CHEMICAL INFORMATION

CHEMICAL NAME

PAINT

HAZARDOUS ☐ YES ☒ NO

COMMON NAME

PAINT

EHS ☐ YES ☒ NO

CAS# 107-21-1

If EHS is "Yes", all amounts below must be in lbs.

HAZARD CODE HAZARD CLASSES (Complete if required by CUPA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE

RADIOACTIVE ☐ YES ☒ NO

CORROSIVE

PHYSICAL STATE (Check one item only)

☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

LARGEST CONTAINER 55

FED. HAZARD CATEGORIES (Check all that apply)

☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

150

MAXIMUM DAILY AMOUNT

300

ANNUAL WASTE AMOUNT

N/A

STATE WASTE CODE

N/A

UNITS

☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS

DAYS ON SITE 355

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK ☐ d. PLASTIC/UNMETALLIC DRUM ☐ i. FIRE DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR  
☐ b. UNDERGROUND TANK ☒ e. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER  
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN  
☒ f. STEEL DRUM ☐ h. SLO ☐ l. CYLINDER ☐ p. TANK WAGON

STORAGE PRESSURE

☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1

228

☐ Yes ☒ No

228

2

230

☐ Yes ☒ No

230

3

234

☐ Yes ☒ No

234

4

238

☐ Yes ☒ No

238

5

242

☐ Yes ☒ No

242

If more hazardous components are present at greater than 1% by weight for carcinogenic, or 1% by weight for non-carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

Signature of CUPA Representative

(Reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(Form Code for material period beginning on 12/31/2021)

☐ ADD ☐ DELETE ☒ REVISE REPORTING YEAR 2024 202 Page 24 of 55

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 200

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION 201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO 202

WAREHOUSE, SOUTHWEST SIDE

FACILITY ID # 1 9 0 1 3 3 0 0 0 1 1 1 203 204 GRID# (optional) 3

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205 TRADE SECRET ☐ Yes ☒ No 206

PETROLEUM DISTILLATE (DIESEL)

COMMON NAME 207 DIESEL FUEL ☐ Yes ☒ No 208

CAS# 209 8002-05-9 ☒ If EHS is "Yes", all amounts below must be in lbs. 210

FIRE CODE HAZARD CLASSES (Check one or more) 211

HAZARDOUS MATERIAL TYPE (Check one item only) ☒ a. FLUID ☐ b. MIXTURE ☐ c. WASTE 212 RADIOACTIVE ☐ Yes ☒ No 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214 LARGEST CONTAINER 55 215

RED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217 MAXIMUM DAILY AMOUNT 218 ANNUAL WASTE AMOUNT 219 STATE WASTE CODE 220

250 550 N/A N/A

UNITS (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221 DAYS ON SITE 222

STORAGE ☒ If EHS amount must be in pounds. 365

CONTAINER ☐ a. ABOVE GROUND TANK ☐ b. PLASTIC NONMETALLIC DRUM ☐ c. FIBER DRUM ☐ d. GLASS BOTTLE ☐ e. RAIL CAR ☐ f. UNDERGROUND TANK ☐ g. CAN ☐ h. BAG ☐ i. PLASTIC BOTTLE ☐ j. OTHER ☐ k. TANK INSIDE BUILDING ☐ l. CARBOY ☐ m. BOX ☐ n. TOTE BIN ☐ o. STEEL DRUM ☐ p. SILE ☐ q. CYLINDER ☐ r. TANK WAGON 223

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

| QNT   | HAZARDOUS COMPONENT (For mixture or waste only) | ELIS   | CAS # |
|-------|---|--|-------|
| 1 226 |   | <input type="checkbox"/> Yes <input type="checkbox"/> No 227 | 228   |
| 2 229 |   | <input type="checkbox"/> Yes <input type="checkbox"/> No 230 | 231   |
| 3 232 |   | <input type="checkbox"/> Yes <input type="checkbox"/> No 233 | 234   |
| 4 235 |   | <input type="checkbox"/> Yes <input type="checkbox"/> No 236 | 237   |
| 5 238 |   | <input type="checkbox"/> Yes <input type="checkbox"/> No 239 | 240   |
| 6 241 |   | <input type="checkbox"/> Yes <input type="checkbox"/> No 242 | 243   |

If more hazardous components are present at greater than 1% by weight of non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information 244

ADDITIONAL LOCALLY COLLECTED INFORMATION 245

If EPCRA, Please Sign Here (Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical) 246

|                   |    |               |       |             |      |
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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(Use once per chemical per 0.25 page max.)

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REPORTING YEAR 2004

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## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As):

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO 203

VARIOUS LOCATIONS

FACILITY ID# 1 9 0 1 3 3 0 0 0 1 1

202 MAP# (optional) 204

203 GRI.# (optional)

X

## II. CHEMICAL INFORMATION

CHEMICAL NAME

PETROLEUM DISTILLATES (GREASE)

205 TRADE SECRET ☐ Yes ☒ No 206  
1. Subject to EPCRA reporting thresholds

COMMON NAME GREASE

207 EHS\* ☐ Yes ☒ No 208

CAS# 8002-05-9

209 \*If EHS is "Yes", all amounts below must be in lbs. 210

211 FIRE CODE HAZARD CLASSES (Compare if required by OSHA)

HAZARDOUS MATERIAL TYPE (Check one item only) ☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES

PHYSICAL STATE (Check one item only) ☒ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 35

215 FLD HAZARD CATEGORIES (Check all that apply)

☒ a. FHF ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☐ d. ACUTALITIC ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 216

1000

217 MAXIMUM DAILY AMOUNT

1500

218 ANNUAL WASTE AMOUNT

N/A

219 STATE WASTE CODE

N/A

220 UNITS\* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☒ c. POUNDS ☐ d. TONS

\*If EHS amount must be in pounds.

221 DAYS ON SITE:

365

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK ☐ k. PLASTIC/METALLIC DRUM ☐ l. FIBER DRUM ☐ m. GLASS BOTTLE ☐ n. RAD CAR  
☐ b. UNDERGROUND TANK ☐ j. CAN ☐ i. BAG ☐ o. PLASTIC DUMMIE ☐ p. OTHER  
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ a. TOTE BIN  
☒ d. STEEL DRUM ☐ h. BULK ☐ l. CYLINDER ☐ p. TANK WAGON

222 STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

223 STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

| %WT   | HAZARDOUS COMPONENT (For mixture or waste only) | FHS  | CAS # |
|-------|---|--|-------|
| 1 225 |   | 227 <input type="checkbox"/> Yes <input type="checkbox"/> No 228 | 229   |
| 2 230 |   | 231 <input type="checkbox"/> Yes <input type="checkbox"/> No 232 | 233   |
| 3 234 |   | 235 <input type="checkbox"/> Yes <input type="checkbox"/> No 236 | 237   |
| 4 238 |   | 239 <input type="checkbox"/> Yes <input type="checkbox"/> No 240 | 241   |
| 5 242 |   | 243 <input type="checkbox"/> Yes <input type="checkbox"/> No 244 | 245   |

If more hazardous components are present at greater than 1% by weight, then one negative, or 0.1% by weight, if carcinogenic, attach additional sheets of paper capturing the required information.

246 ADDITIONAL LOCALITY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(Use duplicate forms as needed, recording chemical)

☐ ADD

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REPORTING YEAR 2004

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## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

HAZARDOUS WASTE STORAGE AREA

 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID #

1 9 0 1 3 3 0 0 0 1 1

MAP# (optional)

1

GRID# (optional)

H

## II. CHEMICAL INFORMATION

CHEMICAL NAME

PETROLEUM DISTILLATES (WASTE MINERAL OIL)

 TRACE SECRET ☐ Yes ☒ No

\* Subject to EPCRA reporting thresholds

COMMON NAME

WASTE MINERAL OIL W/PCB'S &gt;5PPM &lt;50 PPM

 EHS\* ☐ Yes ☒ No

CAS#

\*If EHS is "Yes" all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete as required by GUPA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. PURE

☐ b. MIXTURE

☒ c. WASTE

 RADIOACTIVE ☐ Yes ☒ No

DRIES

PHYSICAL STATE

(Check one item only)

☐ a. SOLID

☒ b. LIQUID

☐ c. GAS

LARGEST CONTAINER

55

FED HAZARD CATEGORIES

(Check all that apply)

☒ a. FIRE

☐ b. REACTIVE

☐ c. PRESSURE HAZARD

☒ d. ACUTE HEALTH

☒ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

55

MAXIMUM DAILY AMOUNT

440

ANNUAL WASTE AMOUNT

33,050

STATE WASTE CODE

281/223

UNITS\*

(Check one item only)

☒ a. GALLONS

☐ b. CUBIC FEET

☐ c. POUNDS

☐ d. TONS

DAYS ON SITE

365

STORAGE CONTAINER

☒ a. ABOVE GROUND TANK

☐ b. UNDERGROUND TANK

☐ c. TANK INSIDE BUILDING

☒ d. STEEL DRUM

☐ e. PLASTIC/METAL CDRUM

☐ f. CAN

☐ g. GARBOY

☐ h. SLO

☐ i. FIBER DRUM

☐ j. BAG

☐ k. BOX

☐ l. CYLINDER

☐ m. GLASS BOTTLE

☐ n. PLASTIC BOTTLE

☐ o. TOTE BIN

☐ p. TANK WAGON

STORAGE PRESSURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

☐ d. CRYOGENIC

%WWT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1 1.00

Polychlorinated Biphenyls

☐ Yes ☐ No

2 9.90

Petroleum Hydrocarbons

☐ Yes ☐ No

8002-05-9

3

☐ Yes ☐ No

4

☐ Yes ☐ No

5

☐ Yes ☐ No

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper providing the required information.

ADDITIONAL LOCALITY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(This page only counts as one page for filing purposes)

☐ ADD ☐ INITIAL ☒ REVISE REPORTING YEAR 2024 205 Page 77 of 84

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 201

FI SFGUNDO POWER, LLC

CHEMICAL LOCATION 202 CHEMICAL LOCATION CONFIDENTIAL (H-CRA) ☐ YES ☒ NO

TRANSFORMERS AT UNITS 3 & 4 AND OTHER LOCATIONS

FACILITY ID# 1 9 0 1 3 3 0 0 0 1 1 203 MAP# (optional) 204 GR. CN (optional) 205 1 U

## II. CHEMICAL INFORMATION

CHEMICAL NAME 206 TRADE SECRET ☐ Yes ☒ No 207

PETROLEUM DISTILLATES (MINERAL OIL)

Is Subject to EPCRA Reporting Requirements

COMMON NAME MINERAL OIL W/PCB'S >2 PPM <50 PPM 208 H-151 ☐ Yes ☒ No 209

CAS# 210 If EHS is "Yes" all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Maximum Allowed by CUPA) 211

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. FLUID ☒ b. MIXTURE ☐ c. WASTE 212 RADIOACTIVE ☐ Yes ☒ No 213 CORROS 214

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 215 LARGEST CONTAINER 10000 216

REG. HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH 217

AVERAGE DAILY AMOUNT 218 MAXIMUM DAILY AMOUNT 219 ANNUAL WASTE AMOUNT 220 STATE WASTE CODE 221  
41400 41400 N/A N/A

UNITS\* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 222 DAYS ON SITE 223  
365

STORAGE CONTAINER ☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. FIBER DRUM ☐ m. GLASS BOTTLE ☐ n. RAIL CAR ☐ o. UNDERGROUND TANK ☐ j. CAN ☐ k. BAG ☐ p. PLASTIC BOTTLE ☒ q. OTHER ☐ c. TANK INSIDE BUILDING ☐ g. GARBOY ☐ l. BOX ☐ r. TOTE BIN ☐ s. TRANSFORMERS ☐ d. STEEL DRUM ☐ h. SIL ☐ i. CYLINDER ☐ v. TANK WAGON 224

STORAGE PRESSURE ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 225

STORAGE TEMPERATURE ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 226

| %WT  | HAZARDOUS COMPONENT (For mixture or waste only)                  | EHS  | CAS #  |
|--|--|--|--|
| 1 0.10 <span style="float: right;">227</span>  | Polychlorinated Biphenyls <span style="float: right;">228</span> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <span style="float: right;">229</span> |  |
| 2 99.00 <span style="float: right;">230</span> | Petroleum Hydrocarbons <span style="float: right;">231</span>    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <span style="float: right;">232</span> | 9002-06-8 <span style="float: right;">233</span> |
| 3 <span style="float: right;">234</span>       |  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <span style="float: right;">235</span> |  |
| 4 <span style="float: right;">236</span>       |  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <span style="float: right;">237</span> |  |
| 5 <span style="float: right;">238</span>       |  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <span style="float: right;">239</span> |  |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper, capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 240

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

OFFICIAL USE ONLY

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DIV BN STA OTHER DISTRICT CUPA PA

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(Use separate material for each building or area)

☐ ADD

☐ DELETE

☐ REVISE

REPORTING YEAR 2004

☒

Page 28 of 55

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

UNIT 3 & 4 GROUND FLOOR

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID #

1 9 0 1 3 3 0 0 0 1 1

MAP# (optional)

1

GRID# (optional)

C

## II. CHEMICAL INFORMATION

CHEMICAL NAME

PETROLEUM DISTILLATE (LUBE OIL)

TRADE SECRET ☐ Yes ☒ No

COMMON NAME

LUBRICATING OIL

EH5\*

If Subject to EPCRA, enter full chemical name

CAS#

8002-05-9

\*If EH5 is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE

RADIOACTIVE ☐ Yes ☒ No

CURIES

PHYSICAL STATE (Check one item only)

☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

LARGEST CONTAINER 10000

FED HAZARD CATEGORIES (Check all that apply)

☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

10,000

MAXIMUM DAILY AMOUNT

10,000

ANNUAL WASTE AMOUNT

13,750

STATE WASTE CODE

221

UNITS\*

(Check one item only)

☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS

\* ECHS amount must be in pounds.

DAYS ON SITE

365

STORAGE

CONTAINER

☒ a. ABOVE GROUND TANK ☐ d. PLASTIC NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ s. RAIL CAR  
☐ b. UNDERGROUND TANK ☐ e. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ t. OTHER  
☒ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN  
☒ f. STEEL DRUM ☐ h. DRUM ☐ l. CYLINDER ☐ p. TANK WAGON

STORAGE PRESSURE

☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

YES

CAS #

1

☐ Yes ☐ No

2

☐ Yes ☐ No

3

☐ Yes ☐ No

4

☐ Yes ☐ No

5

☐ Yes ☐ No

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

EPCRA, Please Sign Here

(Facilities reporting chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical)

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PA

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(Add separate material per building or area)

☐ ADD

☐ DELETE

☐ REVISE

REPORTING YEAR 2004

200

Page 23 of 55

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME on EPA – Doing Business As)

201

**EL SEGUNDO POWER, LLC**

CHEMICAL LOCATION

202 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

202

HAZARDOUS WASTE STORAGE AREA & ACCUMULATION AREAS

FACILITY ID #

1

9

0

1

3

3

0

0

0

1

1

MAP# (optional)

203

FIRID# (optional)

204

1

H

## II. CHEMICAL INFORMATION

CHEMICAL NAME

205 TRADE SECRET ☐ Yes ☒ No

205

**PETROLEUM DISTILLATES (WASTE OIL/SOLIDS)**

206 Subject to EPCRA reporting thresholds

COMMON NAME

**OIL CONTAMINATED SOIL/SOLIDS**

207 EHS ☐ Yes ☒ No

206

CAS#

**8002-05-9**

208 If EHS is "Yes" all amounts below must be in lbs

FIRE CODE HAZARD CLASSES (Complete if modified by GJFA)

209

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. PURE

☐ b. MIXTURE

☒ c. WASTE

211

RADIOACTIVE ☐ Yes ☒ No

212

CURIFS

213

PHYSICAL STATE (Check one item only)

☒ a. SOLID

☐ b. LIQUID

☐ c. GAS

214

LARGEST CONTAINER 500

215

FFD HAZARD CATEGORIES (Check all that apply)

☐ a. FIRE

☐ b. REACTIVE

☐ c. PRESSURE RELEASE

☒ d. ACUTE HAZARD

☐ e. CHRONIC HEALTH

216

AVERAGE DAILY AMOUNT

217

MAXIMUM DAILY AMOUNT

218

ANNUAL WASTE AMOUNT

219

STATE WASTE CODE

220

220

13000

18,800

223

UNITS\*

☒ b. GALLONS ☐ c. CUBIC FEET ☒ d. POUNDS ☐ e. TONS

\* If EHS, amount must be in pounds

DAYS ON SITE:

365

221

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK

☐ d. PLASTIC/NONMETALLIC DRUM

☐ i. FIBER DRUM

☐ m. GLASS BOTTLE

☐ q. RAIL CAR

☐ b. UNDERGROUND TANK

☐ e. CAN

☐ j. BAGS

☐ n. PLASTIC DUTY L

☐ r. OTHER

☐ c. TANK INSIDE BUILDING

☐ g. CARBOY

☐ k. BOX

☐ o. TOTE BIN

☒ f. STEEL DRUM

☐ h. SLO

☐ l. CYLINDER

☐ p. TANK WAGON

222

STORAGE PRESSURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

224

STORAGE TEMPERATURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

☐ d. CRYOGENIC

225

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1 85.00

226

Petroleum Hydrocarbons

227

☐ Yes ☐ No

228

8002-05-9

229

2

230

231

☐ Yes ☐ No

232

233

3

234

235

☐ Yes ☐ No

236

237

4

238

239

☐ Yes ☐ No

240

241

5

242

243

☐ Yes ☐ No

244

245

If more hazardous components are present at greater than 1% by weight from each organic, or 2.1% by weight of inorganic, each add floral sheets of paper capturing the required information.

246

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(also capture registration number, and revision)

☐ ADD

☐ DELETE

☐ REVISE

REPORTING YEAR 2004

X9

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## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As):

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

HAZARDOUS WASTE STORAGE AREA & ACCUMULATION AREA

FACILITY ID #

1 9 0 1 3 3 0 0 0 1 1

201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

203 GRID# (optional)

1

13

## II. CHEMICAL INFORMATION

CHEMICAL NAME

PETROLEUM DISTILLATES (WASTE LUBE OIL)

COMMON NAME

WASTE LUBRICATING OIL

CAS#

8002-05-9

FIRE CODE HAZARD CLASSES (Consolidated per OSHA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. PURE

☐ b. MIXTURE

☒ c. WASTE

PHYSICAL STATE (Check one item only)

☐ a. SOLID

☒ b. LIQUID

☐ c. GAS

FED HAZARD CATEGORIES (Check all that apply)

☒ a. FIRE

☐ b. REACTIVE

☐ c. PRESSURE RELEASE

☒ d. ACUTE TOXICITY

☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

220

MAXIMUM DAILY AMOUNT

1550

ANNUAL WASTE AMOUNT

14,000

STATE WASTE CODE

221

UNITS\*

☒ a. GALLONS

☐ b. CUBIC FEET

☐ c. POUNDS

☐ d. TONS

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK

☐ b. UNDERGROUND TANK

☐ c. TANK INSIDE BUILDING

☒ d. STEEL DRUM

☐ e. PLASTIC/NONMETALIC DRUM

☐ f. CAN

☐ g. CARBOY

☐ h. SILO

☐ i. FIBER DRUM

☐ j. BAG

☐ k. BOX

☐ l. CYLINDER

☐ m. GLASS BOTTLE

☐ n. PLASTIC BOTTLE

☐ o. TOTE BIN

☐ p. TANK WAGON

STORAGE PRESSURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

☐ d. CRYOGENIC

| %WT     | HAZARDOUS COMPONENT (For mixture or waste only) | FHS  | CAS #     |
|---------|---|--|-----------|
| 1 95.00 | Petroleum Hydrocarbon                           | <input type="checkbox"/> Yes <input type="checkbox"/> No | 8002-05-9 |
| 2       |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |           |
| 3       |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |           |
| 4       |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |           |
| 5       |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |           |

If more hazardous components are present at greater than 1% by weight of non-carcinogenic, or 0.1% by weight of carcinogenic, attach additional sheets of paper containing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

Revised 12/1999 Information Bulletin 99-02

☐ ADD

☐ DELETED

☒ E/ISE

REPORTING YEAR 2004

Page 31 of 56

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

UNIDH UN 1 3 BOILER

CHEMICAL LOCATION CONFIDENTIAL (HPCRA) ☐ YES ☒ NO

FACILITY ID #

1 9 0 1 3 3 0 0 0 1 1

MAP#

1

GRID#

V

## II. CHEMICAL INFORMATION

CHEMICAL NAME

PHOSPHATE, CAUSTIC WATER

HAZARD SECRET ☐ Yes ☒ No

Subject to EPCRA, refer to instructions

COMMON NAME

NALCO BT-3000

EHS ☐ Yes ☒ No

CAS#

\*If EHS is "Yes" all amounts below must be in lbs

FIRE CODE HAZARD CLASSES (Excludes if required by CUPA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE

RADIOACTIVE ☐ Yes ☒ No

CRIES

PHYSICAL STATE (Check one item only)

☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

LARGEST CONTAINER

FED HAZARD CATEGORIES (Check all that apply)

☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

200

MAXIMUM DAILY AMOUNT

400

ANNUAL WASTE AMOUNT

N/A

STATE WASTE CODE

N/A

UNITS\* (Check one item only)

☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS

\*If EHS, amount must be in pounds

DAYS ON SITE

365

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/METALLIC DRUM ☐ f. FIBER DRUM ☐ g. GLASS BOTTLE ☐ h. RAIL CAR  
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER  
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☒ o. TOTE BIN  
☐ d. STEEL DRUM ☐ i. SILD ☐ l. CYLINDER ☐ p. TANK WAGON

STORAGE PRESSURE

☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1 2.50

Sodium Hydroxide

☐ Yes ☒ No

1310-73-2

2

230

☐ Yes ☒ No

3

194

☐ Yes ☒ No

4

185

☐ Yes ☒ No

5

242

☐ Yes ☒ No

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper explaining the reported information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per chemical or by chemical class)

☐ ADD

☐ DELETE

☐ REVISE

REPORTING YEAR 2004

Page 32 of 58

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As):

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

UNDER UNIT 3 BOILER

201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID # 1 9 0 1 3 3 0 0 0 1 1

200 MAP# (optional)

202 GRID# (optional)

V

## II. CHEMICAL INFORMATION

CHEMICAL NAME

POLYMER, CAUSTIC, IN AQUEOUS SOLUTION

COMMON NAME NALCO EG-5010

CAS#

FIRE CODE / HAZARD CLASSES (Consults Integrated by CUPA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. PURE ☐ b. MIXTURE ☐ c. WASTE

203 RADIOACTIVE ☐ Yes ☒ NO

204 CURIES

PHYSICAL STATE (Check one item only)

☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

205 LARGEST CONTAINER 220

FFD HAZARD CATEGORIES (Check all that apply)

☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

206

207 MAXIMUM DAILY AMOUNT

300

208 ANNUAL WASTE AMOUNT

N/A

209 STATE WASTE CODE

N/A

UNITS\* (Check one item only)

☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS

\* If EHS amount must be in pounds

210 DAYS ON SITE:

365

STORAGE

CONTAINER

☐ a. ABOVE GROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSUL BUILDING ☐ d. STEEL DRUM ☐ e. PLASTIC/METALLIC DRUM ☐ f. CAN ☐ g. CARBON ☐ h. SOIL ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. OTHER ☒ p. TANK WAGON

STORAGE PRESSURE

☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

| %WT     | HAZARDOUS COMPONENT (For mixture or waste only) | EHS  | CAS #     |
|---------|---|--|-----------|
| 1 20.00 | Sodium Hydroxide                                | <input type="checkbox"/> Yes <input type="checkbox"/> No | 1310-73-2 |
| 2       |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |           |
| 3       |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |           |
| 4       |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |           |
| 5       |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |           |

If more hazardous components are present at greater than 1% by weight if non-hazardous, and 1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL FACILITY COLLECTED INFORMATION

If EPCRA, Please Sign Here

Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(One page per material not building or stock)

☐ ADD

☐ DELETE

☒ REVISE

REPORTING YEAR 2004

Page 33 of 50

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)

EL SEGUNDO POWER LLC

CHEMICAL LOCATION

WAREHOUSE, SOUTH-WEST SIDE

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID #

1 9 0 0 1 3 3 0 0 0 1 1

MAPA (optional)

1

GRID# (optional)

A

## II. CHEMICAL INFORMATION

CHEMICAL NAME

PROPANE

TRADE SECRET ☐ Yes ☒ No

(If checked in EPCRA, note in instructions)

COMMON NAME

PROPANE

CHS ☐ Yes ☒ No

CAS#

If CHS is "Yes" all amounts below must be in lbs.

FIRE CODE / HAZARD CLASSES (Consulted required by CUPA)

HAZARDOUS MATERIAL TYPE (Check one box only)

☐ a. PURE

☒ b. MIXTURE

☐ c. WASTE

211

RADIOACTIVE ☐ Yes ☒ No

212

CURIES

PHYSICAL STATE (Check one item only)

☐ a. SOLID

☐ b. LIQUID

☒ c. GAS

214 LARGEST CONTAINER

25

FED. HAZARD CATEGORIES (Check all that apply)

☒ a. FIRE

☐ b. REACTIVE

☒ c. PRESSURE RELEASE

☒ d. ACUTE HEALTH

☐ e. CHRONIC HEALTH

AVG. DAILY AMOUNT

217

MAXIMUM DAILY AMOUNT

218

ANNUAL WASTE AMOUNT

219

STATE WASTE CODE

220

250

300

N/A

N/A

UNITS\*

☐ a. GALLONS

☒ b. CUBIC FEET

☐ c. POUNDS

☐ d. TONS

221 DAYS ON SITE

365

(Check one item only)

\* If EHS, amount must be in pounds.

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK

☐ f. PLASTIC/NONMETALLIC DRUM

☐ i. FIBERGLASS

☐ m. GLASS BOTTLE

☐ q. RAIL CAR

☐ b. UNDERGROUND TANK

☐ f. CAN

☐ j. BAG

☐ n. PLASTIC BOTTLE

☐ r. OTHER

☐ c. TANK INSIDE BUILDING

☐ g. CARBOY

☐ k. BOX

☐ o. TOTE BIN

☐ d. STEEL DRUM

☐ h. SILE

☒ l. CYLINDER

☐ p. TANK WAGON

222

STORAGE PRESSURE

☐ a. AMBIENT

☒ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

224

STORAGE TEMPERATURE

☐ a. AMBIENT

☐ b. ABOVE AMBIENT

☒ c. BELOW AMBIENT

☐ d. CRYOGENIC

225

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1 0.50

Ethane

227

☐ Yes ☐ No

228

74-84-3

229

2 87.50

Propane

231

☐ Yes ☐ No

232

74-85-6

233

3 0.50

Propylene

235

☐ Yes ☐ No

236

115-07-1

237

4 2.50

Butanes

239

☐ Yes ☐ No

240

Various

241

5 0.01

Ethyl Mercaptan (50 ppm)

243

☐ Yes ☐ No

244

75-18-01

245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

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PA

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(with page per material for collecting chemical)

☐ ADD

☐ DELETE

☒ REVISE

REPORTING YEAR 2004

Page 34 of 58

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)

**F1 SEGUNDO POWER LLC**

CHEMICAL LOCATION

207

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

208

HAZARDOUS WASTE STORAGE AREA & JOB LOCATION

FACILITY ID #

1

9

0

1

3

3

0

0

0

1

1

MAP# (optional)

209

GRID# (optional)

H

204

## II. CHEMICAL INFORMATION

CHEMICAL NAME

207

GRADE SECRET ☐ Yes ☒ No

208

(Subtract EPCRA reporting thresholds)

**SAND BLAST GRIT WITH LEAD**

COMMON NAME **WASTE SAND BLAST GRIT/DUCT SWEEP**

207

EHS

☐ Yes ☒ No

208

CAS#

209

If EHS is "Yes" all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Compliance required by EPCRA)

210

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. PURE

☐ b. MIXTURE

☒ c. WASTE

211

RADIOACTIVE ☐ Yes ☒ No

212

CURIES

213

PHYSICAL STATE (Check one item only)

☒ a. SOLID

☐ b. LIQUID

☐ c. GAS

214

LARGEST CONTAINER 500

215

FED HAZARD CATEGORIES (Check all that apply)

☐ a. FIH

☐ b. REACTIVE

☐ c. PRESSURE RELEASE

☒ d. ACUTE HEALTH

☐ e. CHRONIC HEALTH

216

AVERAGE DAILY AMOUNT

217

MAXIMUM DAILY AMOUNT

218

ANNUAL WASTE AMOUNT

219

STATE WASTE CODE

220

1000

20503

26,000

181

UNITS

☐ a. GALLONS

☐ b. CUBIC FEET

☒ c. POUNDS

☐ d. TONS

221

DAYS ON SITE

222

(Check one item only)

If EHS, amount must be in pounds.

365

STORAGE

CONTAINER

☐ a. ABOVE GROUND TANK

☐ b. UNDERGROUND TANK

☐ c. TANK INSIDE BUILDING

☒ d. STEEL DRUM

☐ e. PLASTIC/NONMETALLIC DRUM

☐ f. CAN

☐ g. CARTRIDGE

☐ h. SILO

☐ i. FIBER DRUM

☐ j. BAG

☐ k. BOX

☐ l. CYLINDER

☐ m. GLASS BOTTLE

☐ n. PLASTIC BOTTLE

☐ o. TOTE BIN

☐ p. TANK WAGON

☐ q. RAIL-CAR

☐ r. OTHER

223

STORAGE PRESSURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

224

STORAGE TEMPERATURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

☐ d. DRYCENIC

225

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS  | CAS # |
|-----|---|--|-------|
| 1   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |
| 2   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |
| 3   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |
| 4   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |
| 5   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |

If more hazardous components are present at greater than 1% by weight of non-carcinogenic, or 0.1% by weight of carcinogenic, attach additional sheets of paper containing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical)

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DISTRICT

CJFA

PA

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(Only applicable to materials not building or area)

☐ ADD ☐ IS-FILE ☒ RE-VISE REPORTING YEAR 2004 200 Page 35 of 55

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 1

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION 20 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO 205

HAZARDOUS WASTE STORAGE AREA

FACILITY ID# 1 9 0 1 3 3 0 0 0 1 1 1 MAP# (optional) 210 215 CHIEF# (optional) 214 1 H

## II. CHEMICAL INFORMATION

CHEMICAL NAME 206 TRADE SECRET ☐ Yes ☒ No 206

SODIUM HYDROXIDE SOLUTION

If Subject to EPCRA, refer to the following

COMMON NAME 207 WASTE SODIUM HYDROXIDE SOLUTION 207

CAS# 208 "If EHS is 'Yes', all amounts below must be in lbs. 208

FIRE CODE HAZARD CLASSES (Complete as required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE 211 RADIOACTIVE ☐ Yes ☒ No 212 CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214 LARGEST CONTAINER 55 215

FFD HAZARD CATEGORIES (Check all that apply) ☐ a. FLAM ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE TOXIC ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217 900 MAXIMUM DAILY AMOUNT 218 900 ANNUAL WASTE AMOUNT 219 200 STATE WASTE CODE 220 135

UNITS (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221 DAYS ON SITE 222 365

STORAGE CONTAINER ☐ a. ABOVE GROUND TANK ☒ b. PLASTIC/METALLIC DRUM ☐ c. FIBER DRUM ☐ d. GLASS BOTTLE ☐ e. RAILCAR ☐ f. UNDERGROUND TANK ☐ g. CAN ☐ h. BAG ☐ i. PLASTIC BOTTLE ☐ j. OTHER ☐ k. TANK INSIDE BUILDING ☐ l. CARCASS ☐ m. BOX ☐ n. 1010 BIN ☐ o. STEEL DRUM ☐ p. SILO ☐ q. CYLINDER ☐ r. TANK VAGON 223

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

| QTY         | HAZARDOUS COMPONENT (For mixture or waste only) | EHS   | CAS #         |
|-------------|---|---|---------------|
| 1 2.00 226  | Sodium Hydroxide 227                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 228 | 1310732 229   |
| 2 98.00 230 | Water 231                                       | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 232 | 7732-1815 233 |
| 3 234       |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 235 |               |
| 4 236       |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 237 |               |
| 5 238       |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 239 |               |
| 6 240       |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 241 |               |
| 7 242       |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 243 |               |

If more Hazardous Components are present in greater than 1% by weight of non-hazardous, or 0.1% by weight of carcinogenic, attach additional sheets of paper capturing the required information. 248

ADDITIONAL LOCALLY COLLECTED INFORMATION

IF EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

|                   |    |               |       |             |       |
|-------------------|----|---------------|-------|-------------|-------|
| OFFICIAL USE ONLY |    | DATE RECEIVED |       | REVIEWED BY |       |
| DIV               | SN | STA           | OTHER | DISTRICT    | CLERK |
|                   |    |               |       |             | FA    |

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(omit space on material not subject to report)

☐ ADD

☐ DELETE

☒ REVISE

REPORTING YEAR 2004

Page 36 of 56

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 8

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION 202  
NORTH OF UNITS 1 & 2, 3 & 4, STORAGE AREA

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID # 204  
1 9 0 1 3 3 0 0 0 1 1

MAP# (optional) 203  
1

GRID# (optional) 204  
F

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205 TRADE SECRET ☐ Yes ☒ No 206

SODIUM HYPOCHLORITE

COMMON NAME 207 BLEACH 207

CAS# 208 EHS ☐ Yes ☒ No 207

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 211 RADIOACTIVE ☐ Yes ☒ No 212 CRIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214 LARGEST CONTAINER 2500 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217 1500 MAXIMUM DAILY AMOUNT 218 2500 ANNUAL WASTE AMOUNT 219 N/A STATE WASTE CODE 220 N/A

UNITS (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221 DAYS ON SITE 222 365

STORAGE CONTAINER ☒ a. ABOVE GROUND TANK ☐ b. UNULF-GROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☐ e. PLASTIC/METALLIC DRUM ☐ f. CAN ☐ g. CARBON ☐ h. SLO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC DRUM ☐ o. TUBES ☐ p. TANK WAGON 223

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

HAZARDOUS COMPONENTS (For mixture or waste only) 226

1 12.50 227 Sodium Hypochlorite 228 ☐ Yes ☒ No 229 7661-52-9 230

> 73.50 231 Water 232 ☐ Yes ☒ No 233 7732-18-5 234

3 235 236 ☐ Yes ☒ No 237 238

4 239 240 ☐ Yes ☒ No 241 242

5 243 244 ☐ Yes ☒ No 245 246

If more hazardous components are present at greater than 1% by weight if non carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information. 247

ADDITIONAL LOCALLY COLLECTED INFORMATION 248

If EPCRA, Please Sign Here 249

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical)

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DIV 253 BN 254 STA 255 OTHER 256 DISTRICT 257 CUPA 258 PA 259

UP FORM 12/1993 Version: 260

THE CUPAS OF LOS ANGELES COUNTY 261

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LPT\_LAC4\_24\_CD 263



# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material being reported)

☐ ADD

☐ DELETE

☐ REVISE

REPORTING YEAR 2034

Page 38 of 56

## I. FACILITY INFORMATION

|  |   |   |   |   |   |   |   |   |   |   |   |                 |     |
|--|---|---|---|---|---|---|---|---|---|---|---|-----------------|-----|
| BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) |   |   |   |   |   |   |   |   |   |   |   | 200             |     |
| EL SEGUNDO POWER, LLC  |   |   |   |   |   |   |   |   |   |   |   | 200             |     |
| CHEMICAL LOCATION  |   |   |   |   |   |   |   |   |   |   |   | 201             |     |
| SOUTHWEST OF WAREHOUSE   |   |   |   |   |   |   |   |   |   |   |   | 201             |     |
| FACILITY ID #  |   |   |   |   |   |   |   |   |   |   |   | 202             |     |
| 1  | 9 | 0 | 1 | 3 | 3 | 0 | 0 | 0 | 1 | 1 | 1 | MAP# (optional) | 203 |
|  |   |   |   |   |   |   |   |   |   |   | 1 | 203             |     |
|  |   |   |   |   |   |   |   |   |   |   | 3 | 204             |     |

## II. CHEMICAL INFORMATION

|  |     |     |  |     |     |  |  |  |  |  |  |     |
|--|-----|-----|--|-----|-----|--|--|--|--|--|--|-----|
| CHEMICAL NAME  |     |     |  |     |     |  |  |  |  |  |  | 205 |
| UNLEADED GASOLINE  |     |     |  |     |     |  |  |  |  |  |  | 205 |
| COMMON NAME  |     |     |  |     |     |  |  |  |  |  |  | 206 |
| UNLEADED GASOLINE  |     |     |  |     |     |  |  |  |  |  |  | 206 |
| CAS#   |     |     |  |     |     |  |  |  |  |  |  | 207 |
| FIRE CODE HAZARD CLASSIFICATION (Complete as required by CUPA)   |     |     |  |     |     |  |  |  |  |  |  | 208 |
| HAZARDOUS MATERIAL TYPE (Check one item only)  |     |     |  |     |     |  |  |  |  |  |  | 209 |
| <input checked="" type="checkbox"/> a. PURE <input type="checkbox"/> b. MIXTURE <input type="checkbox"/> c. WASTE  |     |     |  |     |     |  |  |  |  |  |  | 209 |
| HAZARDOUS MATERIAL TYPE (Check one item only)  |     |     |  |     |     |  |  |  |  |  |  | 210 |
| <input type="checkbox"/> a. SOLID <input checked="" type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS  |     |     |  |     |     |  |  |  |  |  |  | 210 |
| PHYSICAL STATE (Check one item only)   |     |     |  |     |     |  |  |  |  |  |  | 211 |
| <input type="checkbox"/> a. SOLID <input checked="" type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS  |     |     |  |     |     |  |  |  |  |  |  | 211 |
| FEDERAL HAZARD CATEGORIES (Check all that apply)   |     |     |  |     |     |  |  |  |  |  |  | 212 |
| <input checked="" type="checkbox"/> a. FLAM <input type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE <input checked="" type="checkbox"/> d. ACUTE HEALTH <input type="checkbox"/> e. CHRONIC HEALTH   |     |     |  |     |     |  |  |  |  |  |  | 212 |
| AVERAGE DAILY AMOUNT   |     |     |  |     |     |  |  |  |  |  |  | 213 |
| 10   |     |     |  |     |     |  |  |  |  |  |  | 213 |
| MAXIMUM DAILY AMOUNT   |     |     |  |     |     |  |  |  |  |  |  | 214 |
| 15   |     |     |  |     |     |  |  |  |  |  |  | 214 |
| ANNUAL WASTE AMOUNT  |     |     |  |     |     |  |  |  |  |  |  | 215 |
| N/A  |     |     |  |     |     |  |  |  |  |  |  | 215 |
| STATE WASTE CODE   |     |     |  |     |     |  |  |  |  |  |  | 216 |
| N/A  |     |     |  |     |     |  |  |  |  |  |  | 216 |
| UNITS* (Check one item only)   |     |     |  |     |     |  |  |  |  |  |  | 217 |
| <input checked="" type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS  |     |     |  |     |     |  |  |  |  |  |  | 217 |
| STORAGE CONTAINER  |     |     |  |     |     |  |  |  |  |  |  | 218 |
| <input type="checkbox"/> a. ABOVE GROUND TANK <input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> c. TANK INSIDE BUILDING <input type="checkbox"/> d. STEEL DRUM <input type="checkbox"/> e. PLASTIC NONMETALLIC DRUM <input checked="" type="checkbox"/> f. CAN <input type="checkbox"/> g. CARBOY <input type="checkbox"/> h. SILD <input type="checkbox"/> i. FIBER DRUM <input type="checkbox"/> j. BAG <input type="checkbox"/> k. BOX <input type="checkbox"/> l. CYLINDER <input type="checkbox"/> m. GLASS BOTTLE <input type="checkbox"/> n. PLASTIC BOTTLE <input type="checkbox"/> o. TOTE BIN <input type="checkbox"/> p. TANK WAGON |     |     |  |     |     |  |  |  |  |  |  | 218 |
| STORAGE PRESSURE   |     |     |  |     |     |  |  |  |  |  |  | 219 |
| <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT   |     |     |  |     |     |  |  |  |  |  |  | 219 |
| STORAGE TEMPERATURE  |     |     |  |     |     |  |  |  |  |  |  | 220 |
| <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC   |     |     |  |     |     |  |  |  |  |  |  | 220 |
| HAZARDOUS COMPONENT (For mixture or waste only)  |     |     |  |     |     |  |  |  |  |  |  | 221 |
| FHR  |     |     |  |     |     |  |  |  |  |  |  | 222 |
| CAS #  |     |     |  |     |     |  |  |  |  |  |  | 223 |
| 1  | 100 | 224 | <input type="checkbox"/> Yes <input type="checkbox"/> No | 225 | 226 |  |  |  |  |  |  |     |
| 2  | 100 | 227 | <input type="checkbox"/> Yes <input type="checkbox"/> No | 228 | 229 |  |  |  |  |  |  |     |
| 3  | 100 | 230 | <input type="checkbox"/> Yes <input type="checkbox"/> No | 231 | 232 |  |  |  |  |  |  |     |
| 4  | 100 | 233 | <input type="checkbox"/> Yes <input type="checkbox"/> No | 234 | 235 |  |  |  |  |  |  |     |
| 5  | 100 | 236 | <input type="checkbox"/> Yes <input type="checkbox"/> No | 237 | 238 |  |  |  |  |  |  |     |

If more hazardous components are present or greater than 1% by weight if non-carcinogenic, or 1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here  
(Facilities reporting chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical)

|                   |    |               |       |             |      |
|-------------------|----|---------------|-------|-------------|------|
| OFFICIAL USE ONLY |    | DATE RECEIVED |       | REVIEWED BY |      |
| CIV               | BN | STA           | OTHER | DISTRICT    | CUPA |
|                   |    |               |       |             | PA   |

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(This inventory table is per 60,000 lbs. limit)

☐ ADD ☐ DELETE ☒ REVISE REPORTING YEAR 2004 205 Page 59 of 59

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA Doing Business As) 202

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION 203 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

SOUTH OF UNIT #2 & HAZARDOUS WASTE STORAGE AREA

FACILITY ID # 1 9 0 1 3 3 0 0 0 1 1 MAP# (optional) 204 GRID# (optional) H, L

## II. CHEMICAL INFORMATION

CHEMICAL NAME 206 TRADE SECRET ☐ Yes ☒ No

WASTE PAINT CHIPS (LEAD)

IF Subject to EPCRA Section 302(a)(1)

COMMON NAME 207 EHS ☐ Yes ☒ No

CAS# 208 IF EHS is "Yes", all amounts below must be in lbs

HAZ CODE HAZARD (I) ASBESTOS (Complete if required by CUPA) 209

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. FLUCL ☐ b. MIXTURE ☒ c. WASTE 210 RADIOACTIVE ☐ Yes ☒ No 211 CURIES

PHYSICAL STATE (Check one item only) ☒ a. SOLID ☐ b. LIQUID ☐ c. GAS 212 LARGEST CONTAINER 500

FED HAZARD CATEGORIES (Check all that apply) ☒ a. F1RL ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 213

AVERAGE DAILY AMOUNT 214 MAXIMUM DAILY AMOUNT 215 ANNUAL WASTE AMOUNT 216 STATE WASTE CONF

1500

15570

11,160

352

UNITS (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☒ c. POUNDS ☐ d. TONS 217 DAYS ON SITE: 218

\* IF EHS, amount must be in pounds

365

STORAGE CONTAINER ☐ a. ABOVE GROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☒ d. STEEL DRUM 219

☐ e. PLASTIC/METALIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. BULK

☐ i. JER DRUM ☐ j. BAG ☐ k. BOX ☐ l. CYLINDER

☐ m. GLASS BOTTLE ☐ n. TOTE BIN ☐ o. TANK WAGON

☐ p. RAIL CAR ☐ q. PLASTIC BOTTLE ☐ r. OTHER

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 220

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 221

| %WT         | HAZARDOUS COMPONENT (For mixture or waste only) | FLHS   | CAS #         |
|-------------|---|--|---------------|
| 1 10.00 222 | Benzene 223                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No 224 | 71-43-2 225   |
| 2 10.00 226 | Lead 227  | <input type="checkbox"/> Yes <input type="checkbox"/> No 228 | 7439-92-1 229 |
| 3 230       |   | <input type="checkbox"/> Yes <input type="checkbox"/> No 231 |               |
| 4 232       |   | <input type="checkbox"/> Yes <input type="checkbox"/> No 233 |               |
| 5 234       |   | <input type="checkbox"/> Yes <input type="checkbox"/> No 235 |               |

If more hazardous components are present or greater than 1% by weight if non-carcinogenic, and 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information 236

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical)

| FICIAL USE ONLY |    | DATE RECEIVED |       | REVIEWED BY |      |
|-----------------|----|---------------|-------|-------------|------|
| DIV             | EN | STA           | OTHER | DISTRICT    | CUPA |
|                 |    |               |       |             | PA   |

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material, not including cover)

☐ ADD

☐ DELETE

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REPORTING YEAR 2004

230

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## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

SOUTH OF UNIT #2 & HAZARDOUS WASTE STORAGE AREA

201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID #

1

9

0

1

3

3

0

0

0

1

1

MAP# (optional)

1

GRID# (optional)

H, I

## II. CHEMICAL INFORMATION

CHEMICAL NAME

WASTE PAINT SOLIDS/SLUDGE

206 TRADE SECRET ☐ Yes ☒ No

If Subject to EPCRA, refer to instructions

COMMON NAME

207 EHS\*

☐ Yes ☒ No

CAS#

209 \*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE/HAZARD CLASSES (Consult & required by GJPA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. PURE

☐ b. MIXTURE

☒ c. WASTE

211

RADIOACTIVE ☐ Yes ☒ No

212

CURIES

PHYSICAL STATE (Check one item only)

☒ a. SOLID

☐ b. LIQUID

☐ c. GAS

214

LARGEST CONTAINER 500

FED HAZARD CATEGORIES (Check all that apply)

☒ a. FIRE

☐ b. REACTIVE

☐ c. PRESSURE RELEASE

☒ d. ACUTE HEALTH

☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

110

MAXIMUM DAILY AMOUNT

440

ANNUAL WASTE AMOUNT

11,150

STATE WASTE CODE

352

UNITS\*

☐ a. GALLONS

☐ b. CUBIC FEET

☒ c. POUNDS

☐ d. TONS

\*Check one item only

\* If EHS amount must be in pounds

221

DAYS ON SITE:

365

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK

☐ a. PLASTIC/MONOMETALLIC DRUM

☐ i. FIBER DRUM

☐ m. GLASS BOTTLE

☐ q. RAIL CAR

☐ b. UNDERGROUND TANK

☐ c. CAN

☐ j. BAG

☐ n. PLASTIC BOTTLE

☐ r. OTHER

☐ c. TANK INSIDE BUILDING

☐ g. CARRIOT

☐ k. BOX

☐ o. TOTE BIN

☒ d. STEEL DRUM

☐ h. ILC

☐ l. CYLINDER

☐ p. TANK WAGON

STORAGE PRESSURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

☐ d. CRYOGENIC

| %WT     | HAZARDOUS COMPONENT (For mixture or waste only) | EHS  | CAS #      |
|---------|---|--|------------|
| 1 20.00 | Mineral Spirits                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No | 64742-88-7 |
| 2 20.00 | Aliphatic Petroleum Distillates                 | <input type="checkbox"/> Yes <input type="checkbox"/> No | 8052-41-3  |
| 3 20.00 | Citrus Terpenes                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No | 68547-72-3 |
| 4 20.00 | Severely Hydrotreated Light Distillates         | <input type="checkbox"/> Yes <input type="checkbox"/> No | 64742-74-8 |
| 5       |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |            |

If more hazardous components are present at greater than 1% by weight, list four more (up to 5% by weight) in separate sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(For those reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical)

| OFFICIAL USE ONLY |    | DATE RECEIVED |       | REVIEWED BY |      |    |
|-------------------|----|---------------|-------|-------------|------|----|
| DIV               | SN | STA           | OTHER | DISTRICT    | CUPA | FA |

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(omit page for material not building or stock)

☒ ADD

☐ DELETE

☐ REVISE

REPORTING YEAR 2024

200 : Page 4 of 56

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA, Doing Business As) 201

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION 202

UNITS 1 & 2 SCREEN WELL

☒ CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID # 1 9 0 1 3 3 0 0 0 1 1 203

MAP# (optional) 204 GRID# (optional) V

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205

LCS-20

TRADE SECRET ☐ Yes ☒ No 206

COMMON NAME 207

EHS\* ☐ Yes ☒ No 208

CAS# 7632-00-0 209

\*If EHS is "Yes", all amounts below must be in lbs. 210

FIRE CODE, HAZARD CLASSIFS (Complete if req. per CUPA) 211

HAZARDOUS WASTE CLASS TYPE (Check one item only) ☐ a. INERT ☒ b. MIXTURE ☐ c. WASTE 212

RADIOACTIVE ☐ Yes ☒ No 213

CURIES

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 55 GALS 215

FLD HAZARD CATEGORIES (Check all that apply) ☒ a. TOXIC ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217

550

MAXIMUM DAILY AMOUNT 218

55

ANNUAL WASTE AMOUNT 219

N/A

STATE WASTE CODE 220

N/A

UNITS\* ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221

STORAGE DAYS ON SITE 222

365

CONTAINER ☐ a. ABOVE GROUND TANK ☒ b. PLASTIC/METALLIC DRUM ☐ c. FIBER DRUM ☐ d. GLASS BOTTLE ☐ e. RAIL CAR 223

☐ f. UNDERGROUND TANK ☐ g. BAG ☐ h. PLASTIC BOTTLE ☐ i. OTHER

☐ j. TANK INSIDE BUILDING ☐ k. CARBOY ☐ l. BOX ☐ m. TOTE BIN

☐ n. STEEL DRUM ☐ o. S/C ☐ p. CYLINDER ☐ q. TANK WAGON

STORAGE PRESSURE ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

SWT 226

HAZARDOUS COMPONENT (For mixture or waste only) 227

FHS

CAS #

1 10-30.0 228

Sodium Nitrite

☐ Yes ☒ No 229

7632-00-0

2 10-5.0 230

Sodium Hydroxide

☐ Yes ☒ No 231

1310-73-2

3 1.0-5.0 232

Borates, Tetra, Sodium Salts - Anhydrous

☐ Yes ☒ No 233

4 234

☐ Yes ☐ No 235

5 236

☐ Yes ☐ No 237

These hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic; attach additional sheets of paper capturing the required information 238

ADDITIONAL LOCALLY COLLECTED INFORMATION 239

\* EPCRA, Please Sign Here 240

Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical; 241

242

243

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245

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

Form 600-1 (for material processing material)

☒ ADD

☐ DELETE

☐ REVISE

REPORTING YEAR 2024

Page 42 of 56

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or IDHA – Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

UNITS 1 & 2 SCREEN WELL

201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID #

1

9

0

1

3

3

0

0

0

1

1

202 MAP# (optional)

1

203 CRID# (optional)

V

## II. CHEMICAL INFORMATION

CHEMICAL NAME

NALCO B338

204 TRADE SECRET ☐ Yes ☒ No

If Subject to EPCRA, refer to instructions

COMMON NAME

205 EHS# ☐ Yes ☒ No

CAS# 7632-00-0

206 If EHS is "Yes" all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. PURE

☒ b. MIXTURE

☐ c. WASTE

207 RADIOACTIVE ☐ Yes ☒ No

208 CURIES

PHYSICAL STATE (Check one item only)

☐ a. SOLID

☒ b. LIQUID

☐ c. GAS

209 LARGEST CONTAINER 55 GALS

FED HAZARD CATEGORIES (Check all that apply)

☐ a. FIRE

☒ b. REACTIVE

☐ c. PRESSURE RELEASE

☐ d. ACUTE HEALTH

☒ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

550

210 MAXIMUM DAILY AMOUNT

55

211 ANNUAL WASTE AMOUNT

N/A

212 STATE WASTE CODE

N/A

UNITS\*

☒ a. GALLONS

☐ b. CUBIC FEET

☐ c. POUNDS

☐ d. TONS

213 DAYS ON SITE

365

STORAGE

CONTAINER

☐ a. ABOVE GROUND TANK

☐ b. UNDERGROUND TANK

☐ c. TANK INSIDE BUILDING

☐ d. STEEL DRUM

☒ e. PLASTIC/NONMETALLIC DRUM

☐ f. CAN

☐ g. BARREL

☐ h. SILD

☐ i. FIBER DRUM

☐ j. BAG

☐ k. BOX

☐ l. CYLINDER

☐ m. GLASS BOTTLE

☐ n. PLASTIC BOTTLE

☐ o. TOTE BIN

☐ p. TANK WAGON

☐ q. RAIL CAR

☐ r. OTHER

STORAGE PRESSURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

☐ d. CRYOGENIC

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1 10.0  
30.0

Sodium Nitrite

214 ☐ Yes ☒ No

215 7632-00-0

2 1.0-5.0

Sodium Tolyltriazole

216 ☐ Yes ☒ No

217 54555-57-2

3 0.1-1.0

Sodium Hydroxide

218 ☐ Yes ☒ No

219 1310-73-2

4

220

221 ☐ Yes ☐ No

222

5

223

224 ☐ Yes ☐ No

225

If more hazardous components are present at greater than 1% by weight of non-carcinogens, or 0.1% by weight of carcinogens, attach additional sheets of pages capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical)

OFFICIAL USE ONLY

DATE RECEIVED

REVIEWED BY

DIV

BN

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DISTRICT

CIJFA

PA

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(omit page number for bulk reporting)

☒ ADD

☐ DELETE

☐ REVISE

REPORTING YEAR 2024

Page 43 of 58

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

UNDER UNIT 3 BOILER

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID# 1 9 0 1 3 3 0 0 0 1 1

MAP# (optional)

1

CRIDA# (optional)

V

## II. CHEMICAL INFORMATION

CHEMICAL NAME

NALCO 7330

TRADE SECRET ☐ Yes ☒ No

If Subject to EPCRA, refer to instructions

COMMON NAME

EHS\*

☐ Yes ☒ No

CASA 26172-55-4

\*If EHS is "Yes", all amounts below must be in lbs.

FIRE (NOTE: HAZARD CLASSES (X) marks required by GUPA)

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE

RADIOACTIVE ☐ Yes ☒ No

CURIES

PHYSICAL STATE

(Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

LARGEST CONTAINER

220 GALS

FED HAZARD CATEGORIES

(Check all that apply) ☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

220

WARMUP DAILY AMOUNT

220

ANNUAL WASTE AMOUNT

N/A

STILL WASTE CODE

N/A

UNITS\*

(Check one item only)

☒ a. GALLONS

☐ b. CUBIC FEET

☐ c. POUNDS

☐ d. TONS

\*If CUS amount must be in pounds.

DAYS ON SITE

365

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK

☐ b. UNDERGROUND TANK

☐ c. TANK INSIDE BUILDING

☐ d. STEEL DRUM

☐ e. PLASTIC/METALLIC DRUM

☐ f. CAN

☐ g. CARTON

☐ h. BULK

☐ i. FIRE CRIM

☐ j. BAG

☐ k. BOX

☐ l. CYLINDER

☐ m. GLASS BOTTLE

☐ n. PLASTIC BOTTLE

☒ o. POTE BIN

☐ p. TANK WAGON

STORAGE PRESSURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

☐ d. CRYOGENIC

QTY

HAZARDOUS COMPONENT (I or mixture or waste only)

LHS

CAS #

1

1.1

6-Chloro-2-Methyl-4-Isothiazolin-3-one

227

☐ Yes ☒ No

228

26172-55-4

229

2

0.4

2-Methyl-4-isothiazolin-3-one

231

☐ Yes ☒ No

232

2682-20-4

233

3

235

☐ Yes ☐ No

236

237

4

238

☐ Yes ☐ No

239

240

5

241

☐ Yes ☐ No

242

243

If these hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing this required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

OFFICIAL USE ONLY

DATE RECEIVED

REVIEWED BY

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OTHER

DISTRICT

CUPA

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

Form UPR-001 (02/02/04) (01/01/04) (01/01/04)

☒ ADD

☐ DUE TO

☐ REVISE

REPORTING YEAR 2004

201

Page 44 of 56

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

EL SEGUNDO POWER LLC

CHEMICAL LOCATION

UNIT 384, CHEMICAL STORAGE AREA

FACILITY ID #

1 9 0 1 3 3 0 0 0 1 1

MAP#

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

GR DW (Section)

1

J

## II. CHEMICAL INFORMATION

CHEMICAL NAME

TRISODIUM PHOSPHATE

TRANS-SHORE ☐ Yes ☒ No

If Subject to EPCRA, refer to method one

COMMON NAME

7601-54-9

EHS ☐ Yes ☒ No

CAS#

If EHS is "Yes", all amounts below must be in lbs

FIRE CODE HAZARD CLASSES (Complete if marked by GHS)

HAZARDOUS MATERIAL TYPE (Check one item only)

☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE

RADIOACTIVE ☐ Yes ☒ No

CURIES

PHYSICAL STATE (Check one item only)

☒ a. SOLID ☐ b. LIQUID ☐ c. GAS

ARGEST CONTAINER ☐ a. LBS

HAZARD CATEGORIES (Check all that apply)

☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

150

MAXIMUM DAILY AMOUNT

550

ANNUAL WASTE AMOUNT

N/A

STATE WASTE CODE

N/A

UNITS\* (Check one item only)  
STORAGE CONTAINER

☐ a. GALLONS ☐ b. CUBIC FEET ☒ c. POUNDS ☐ d. TONS  
\* If EHS, amount must be in pounds.

DAYS ON SITE  
365

☐ a. ABOVE GROUND TANK  
☐ b. UNDERGROUND TANK  
☐ c. TANK INSIDE BUILDING  
☐ d. STEEL DRUM

☒ e. PLASTIC/NONMETALLIC DRUM  
☐ f. CAN  
☐ g. CARBOY  
☐ h. SLO

☐ i. FIBER DRUM  
☐ j. BAG  
☐ k. BOX  
☐ l. CYLINDER

☐ m. GLASS BOTTLE  
☐ n. PLASTIC BOTTLE  
☐ o. TOTE BIN  
☐ p. TANK WAGON  
☐ q. RAIL CAR  
☐ r. OTHER

STORAGE PRESSURE

☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1 Sodium Phosphate

☐ Yes ☒ No 7601-54-9

2

☐ Yes ☐ No

3

☐ Yes ☐ No

4

☐ Yes ☐ No

5

☐ Yes ☐ No

If more hazardous components are present at greater than 1% by weight of non-carcinogenic, or 0.1% by weight of carcinogenic, please attach additional sheets of paper explaining the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical)

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CV

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OTHER

DISTRICT

CJPA

PA

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

one page per material, including cover

☒ ADD    ☐ DELETE    ☐ REVISE    REPORTING YEAR 2024    20    Page 45 of 55

## I. FACILITY INFORMATION

|  |   |   |   |   |   |   |   |   |   |                  |     |
|--|---|---|---|---|---|---|---|---|---|------------------|-----|
| BUSINESS NAME (Same as FACILITY NAME or DBA – Using Business As) |   |   |   |   |   |   |   |   |   | 2                |     |
| EL SEGUNDO POWER, LLC  |   |   |   |   |   |   |   |   |   |                  |     |
| CHEMICAL LOCATION  |   |   |   |   |   |   |   |   |   | 201              |     |
| PILOT DESALT PLANT   |   |   |   |   |   |   |   |   |   | 202              |     |
| FACILITY ID #  |   |   |   |   |   |   |   |   |   | 203              |     |
| 1  | 9 | 0 | 1 | 3 | 3 | 0 | 0 | 1 | 1 | MAP# (optional)  | 200 |
|  |   |   |   |   |   |   |   |   |   | GRID# (optional) | 204 |
|  |   |   |   |   |   |   |   |   |   | 1                | E   |

## II. CHEMICAL INFORMATION

|   |   |                     |                      |   |  |                     |   |     |
|---|---|---------------------|----------------------|---|--|---------------------|---|-----|
| CHEMICAL NAME   |   |                     |                      | 205   | TRADE SECRET   |                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 206 |
| WASTE CITRIC ACID WITH WATER  |   |                     |                      |   | If subject to EPCRA, refer to instructions   |                     |   |     |
| COMMON NAME   |   |                     |                      | 207   | CHS  |                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 208 |
| CASA 7681-52-9  |   |                     |                      | 209   | *If CHS is "Yes", all amounts below must be in lbs.  |                     |   |     |
| FIRE CODE HAZARD CLASSES (consistent with required by CUPA)   |   |                     |                      |   |  |                     |   | 210 |
| HAZARDOUS MATERIAL TYPE (Check one item only)   |   |                     |                      | 211   | RADIOACTIVE  |                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 212 |
| <input type="checkbox"/> a. PLATE <input type="checkbox"/> b. MIXTURE <input checked="" type="checkbox"/> c. WASTE  |   |                     |                      |   | CLASSES  |                     | 213   |     |
| PHYSICAL STATE (Check one item only)  |   |                     |                      | 214   | LARGEST CONTAINER  |                     | 55  | 215 |
| <input checked="" type="checkbox"/> a. SOLID <input type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS   |   |                     |                      |   |  |                     |   |     |
| FFD HAZARD CATEGORIES (Check all that apply)  |   |                     |                      | 216   | <input type="checkbox"/> a. FIRE <input checked="" type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE <input checked="" type="checkbox"/> d. ACUTE HEALTH <input type="checkbox"/> e. CHRONIC HEALTH |                     | 217   |     |
| AVERAGE DAILY AMOUNT  |   | 218                 | MAXIMUM DAILY AMOUNT |   | 219  | ANNUAL WASTE AMOUNT |   | 220 |
| 500   |   |                     | 500                  |   |  | 205                 |   | 135 |
| UNITS*  |   | 221                 | CUBIC FEET           |   | 222  | TANKS ON SITE       |   | 223 |
| <input checked="" type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS   |   |                     |                      |   |  | 90 DAYS             |   |     |
| STORAGE CONTAINER   |   |                     |                      |   |  |                     |   | 224 |
| <input type="checkbox"/> a. ABOVE GROUND TANK <input checked="" type="checkbox"/> b. PLASTIC/NONMETALLIC DRUM <input type="checkbox"/> c. FIBER DRUM <input type="checkbox"/> d. GLASS BOTTLE <input type="checkbox"/> e. RAIL CAR<br><input type="checkbox"/> f. UNDERGROUND TANK <input type="checkbox"/> g. CAN <input type="checkbox"/> h. BAG <input type="checkbox"/> i. PLASTIC BOTTLE <input type="checkbox"/> j. OTHER<br><input type="checkbox"/> k. TANK INSIDE BUILDING <input type="checkbox"/> l. CARBOY <input type="checkbox"/> m. BOX <input type="checkbox"/> n. TOTE BIN<br><input type="checkbox"/> o. STILL DRUM <input type="checkbox"/> p. SLO <input type="checkbox"/> q. CYLINDER <input type="checkbox"/> r. TANK WAGON |   |                     |                      |   |  |                     |   |     |
| STORAGE PRESSURE  |   |                     |                      | 225   | <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT   |                     | 226   |     |
| STORAGE TEMPERATURE   |   |                     |                      | 227   | <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC   |                     | 228   |     |
| %WT   | HAZARDOUS COMPONENT (For mixture or waste only) |                     |                      |   | EHS  | CAS #               |   |     |
| 1 2%  | 229   | Citric Acid         | 230                  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 231  |                     |   |     |
| 2 1%  | 232   | Sodium Hypochlorite | 233                  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 234  | 7681-52-9           |   |     |
| 3   | 235   |                     | 236                  | <input type="checkbox"/> Yes <input type="checkbox"/> No            | 237  |                     |   |     |
| 4   | 238   |                     | 239                  | <input type="checkbox"/> Yes <input type="checkbox"/> No            | 240  |                     |   |     |
| 5   | 241   |                     | 242                  | <input type="checkbox"/> Yes <input type="checkbox"/> No            | 243  |                     |   |     |

\*If more hazardous components are present at greater than 1% by weight (for non-liquids) or 0.1% by weight (for liquids), attach additional sheets of paper containing the required information.

### ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

|                   |    |     |               |          |      |             |  |  |
|-------------------|----|-----|---------------|----------|------|-------------|--|--|
| OFFICIAL USE ONLY |    |     | DATE RECEIVED |          |      | REVIEWED BY |  |  |
| CIV               | BN | STA | OTHER         | DISTRICT | CUPA | PA          |  |  |

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

Use only for material not listed on manifest

☒ ADD

☐ DELETE

☐ REVISE

REPORTING YEAR 2004

230

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## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

PILOT DESALT PLANT

231 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID #

1

9

0

1

3

3

0

0

0

1

1

232 MAP# (optional)

1

233 GRU# (optional)

F

## II. CHEMICAL INFORMATION

CHEMICAL NAME

WASTE EDTA WITH WATER

235 TRADE SECRET

☐ Yes ☒ No

If Subject to EPCRA refer to instructions

COMMON NAME

237 FHS\*

☐ Yes ☒ No

CASE#

238 \*If FHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. PURE

☐ b. MIXTURE

☒ c. WASTE

239 RADIOACTIVE ☐ Yes ☒ No

240 CLUSTERS

PHYSICAL STATE (Check one item only)

☐ a. SOLID

☒ b. LIQUID

☐ c. GAS

241 LARGEST CONTAINER

55

FOR HAZARD CATEGORIES (Check all that apply)

☐ a. FIRE

☒ b. REACTIVE

☐ c. PRESSURE RELEASE

☒ d. ACUTE HEALTH

☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

55

242 MAXIMUM DAILY AMOUNT

55

243 ANNUAL WASTE AMOUNT

55

244 STATE WASTE CODE

135

UNITS\*

☒ a. GALLONS

☐ b. CUBIC FEET

☐ c. POUNDS

☐ d. TONS

245 DAYS ON SITE

60 DAYS

STORAGE

CONTAINER

☐ a. ABOVE GROUND TANK

☒ b. PLASTIC/METALLIC DRUM

☐ c. FIBER DRUM

☐ d. GLASS BOTTLE

☐ e. RAIL CAR

☐ f. UNDERGROUND TANK

☐ g. CAY

☐ h. BAG

☐ i. PLASTIC UTILITY

☐ j. OTHER

☐ k. TANK INSIDE BUILDING

☐ l. CARBOY

☐ m. BOX

☐ n. TOTE BIN

☐ o. CYLINDER

☐ p. TANK WAGON

☐ q. STEEL DRUM

☐ r. SILO

STORAGE PRESSURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

☐ d. CRYOGENIC

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | FHS  | CAS # |
|-----|---|--|-------|
| 1   | 236   | 239 <input type="checkbox"/> Yes <input type="checkbox"/> No | 240   |
| 2   | 237   | 239 <input type="checkbox"/> Yes <input type="checkbox"/> No | 240   |
| 3   | 238   | 239 <input type="checkbox"/> Yes <input type="checkbox"/> No | 240   |
| 4   | 239   | 239 <input type="checkbox"/> Yes <input type="checkbox"/> No | 240   |
| 5   | 240   | 239 <input type="checkbox"/> Yes <input type="checkbox"/> No | 240   |

If more hazardous components are present in greater than 1% by weight if non-toxicogenic, or 0.1% by weight if toxicogenic, attach additional sheets of paper capturing the required information.

ALERT 1. LOCAL COLLECTION INFORMATION

If EPCRA: Please Sign Here

(Facilities reporting chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

OFFICIAL USE ONLY

DATE RECEIVED

REVIEWED BY

DIV BN STA OTHER DISTRICT

CUPA

PA

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(DATE NEW OR REVISIONS BEING COLLECTED)

☐ ADD

☐ DELETE

☒ REVISE

REPORTING YEAR 2004

Page 27 of 56

## I. FACILITY INFORMATION

FACILITY NAME (Same as FACILITY NAME on BDA Using Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

HAZARDOUS WASTE STORAGE AREA

201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID #

1 9 0 1 3 3 0 0 0 1 1 1

202 MATN (optional)

1

203 CHN (optional)

H

## II. CHEMICAL INFORMATION

CHEMICAL NAME

ELECTROLYTE

205 TRADE SECRET

☐ Yes ☒ No

COMMON NAME

BATTERY ACID

206 EHS\*

☐ Yes ☒ No

CAS#

FIRE CODE/HAZARD CLASSES (Complete if required by CUPA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE

211 RADIOACTIVE ☐ Yes ☒ No

212 GURFS

PHYSICAL STATE

(Check one item only)

☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

214 LARGEST CONTAINER

FEED HAZARD CATEGORIES

(Check all that apply)

☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

1500

213 MAXIMUM DAILY AMOUNT

1500

215 ANNUAL WASTE AMOUNT

216 STATE WASTE CODE

UNITS\*

(Check one item only)

☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS

\*If C-HS, amount must be in pounds.

221

DAYS ON SITE

365

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK

☐ b. PLASTIC/OTHER TALL DRUM

☐ c. TIDRUM DRUM

☐ d. GLASS BOTTLE

☐ e. RAIL CAR

☐ f. UNDERGROUND TANK

☐ g. CAN

☐ h. BAG

☐ i. PLASTIC BOTTLE

☒ j. OTHER

☐ k. TANK INSIDE BUILDING

☐ l. CARBOY

☐ m. BOX

☐ n. TOTE BIN

BATTERY

☐ o. STEEL DRUM

☐ p. SILO

☐ q. CYLINDER

☐ r. TANK WAGON

223

STORAGE PRESSURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

224

STORAGE TEMPERATURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

☐ d. CRYOGENIC

225

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1 29.3

Sulfuric Acid

227

☐ Yes ☒ No

228

226

2

230

229

☐ Yes ☐ No

232

227

3

234

233

☐ Yes ☐ No

236

231

4

236

234

☐ Yes ☐ No

240

241

5

240

242

☐ Yes ☐ No

243

235

If more hazardous components are present at greater than 1% by weight of non-hazardous, or 0.1% by weight if cryogenic, attach addt'l sheets of paper explaining the reported information

ADDITIONAL LOCALLY COLLECTED INFORMATION

245

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

OFFICIAL USE ONLY

DATE RECEIVED

REVIEWED BY

DIV BN STA

OTHER DISTRICT

CUPA

PA

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(one page per material per listing created)

☐ ADD

☐ DELETE

☒ REVISE

REPORTING YEAR 2004

200

Page 48 of 56

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

EL SFGUNDO POWER, LLC

CHEMICAL LOCATION

HAZARDOUS WASTE STORAGE AREA

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID # 1 9 0 1 3 3 0 0 0 1 1

MAP# (optional)

CHID# (optional)

## II. CHEMICAL INFORMATION

CHEMICAL NAME

WASTE WATER W/LEAD

TRADE SECRET ☐ Yes ☒ No

If Subject to EPCRA, refer to instructions

COMMON NAME HAZARDOUS WASTE LIQUID (LEAD)

EHS\*

☐ Yes ☒ No

CAS#

\*If EHS is "Yes", all amounts below must be in lbs

FIRE CODE HAZARD CLASSES (Check one. Required by OSHA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE

RADIOACTIVE ☐ Yes ☒ No

CURIES

PHYSICAL STATE (Check one item only)

☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

LARGEST CONTAINER

55

FED HAZARD CATEGORIES (Check all that apply)

☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

55

MAXIMUM DAILY AMOUNT

110

ANNUAL WASTE AMOUNT

110

STATE WASTE CODE

136

UNITS\* (Check one item only)  
STORAGE

☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS  
\*If EHS amount must be in pounds

201

DAYS ON SITE

365

CONTAINER

☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/METALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR  
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER  
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TUBULIN  
☒ d. STEEL DRUM ☐ h. SILD ☐ l. CYLINDER ☐ p. TANK WAGON

STORAGE PRESSURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

☐ d. CRYOGENIC

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS   | CAS # |
|-----|---|---|-------|
| 1   |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |
| 2   |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |
| 3   |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |
| 4   |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |
| 5   |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |

If more hazardous components are present at greater than 1% by weight if not carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper including the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

EPCRA: Please Sign Here

Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.

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DATE RECEIVED

REVIEWED BY

DIV BN SIA OTHER DISTRICT

CUPA PA

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(Use only one page per material per business or activity)

☐ ADD

☐ DELETE

☒ REVISE

REPORTING YEAR 2024

Page 49 of 55

## I. FACILITY INFORMATION

|  |  |  |  |  |  |  |  |  |  |     |  |
|--|--|--|--|--|--|--|--|--|--|-----|--|
| BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) |  |  |  |  |  |  |  |  |  | 20  |  |
| FI SEGUNDO POWER, LLC  |  |  |  |  |  |  |  |  |  |     |  |
| CHEMICAL LOCATION  |  |  |  |  |  |  |  |  |  | 201 |  |
| HAZARDOUS WASTE STORAGE AREA                                     |  |  |  |  |  |  |  |  |  | 202 |  |
| FACILITY ID# 1 9 0 1 3 3 0 0 0 1 1                               |  |  |  |  |  |  |  |  |  | 204 |  |
| MAP# (optional) 1  |  |  |  |  |  |  |  |  |  | 205 |  |
| GRID# (optional) H   |  |  |  |  |  |  |  |  |  | 206 |  |

## II. CHEMICAL INFORMATION

|   |  |  |  |  |  |  |  |  |  |     |  |
|---|--|--|--|--|--|--|--|--|--|-----|--|
| CHEMICAL NAME   |  |  |  |  |  |  |  |  |  | 208 |  |
| HAZARDOUS WASTE SOLID   |  |  |  |  |  |  |  |  |  | 209 |  |
| COMMON NAME (CADMIUM WITH DUCT SWEEP)   |  |  |  |  |  |  |  |  |  | 210 |  |
| CAS#  |  |  |  |  |  |  |  |  |  | 211 |  |
| FIRE CODE HAZARD (C) ASSES (Completed by CUPA)  |  |  |  |  |  |  |  |  |  | 212 |  |
| HAZARDOUS MATERIAL TYPE (Check one item only)   |  |  |  |  |  |  |  |  |  | 213 |  |
| <input type="checkbox"/> a. PURE <input type="checkbox"/> b. MIXTURE <input checked="" type="checkbox"/> c. WASTE   |  |  |  |  |  |  |  |  |  | 214 |  |
| PHYSICAL STATE (Check one item only)  |  |  |  |  |  |  |  |  |  | 215 |  |
| <input checked="" type="checkbox"/> a. SOLID <input type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS   |  |  |  |  |  |  |  |  |  | 216 |  |
| FED HAZARD CATEGORIES (Check all that apply)  |  |  |  |  |  |  |  |  |  | 217 |  |
| <input type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE <input checked="" type="checkbox"/> d. ACUTE HEALTH <input type="checkbox"/> e. CHRONIC HEALTH   |  |  |  |  |  |  |  |  |  | 218 |  |
| AVERAGE DAILY AMOUNT  |  |  |  |  |  |  |  |  |  | 219 |  |
| 500   |  |  |  |  |  |  |  |  |  | 220 |  |
| MAXIMUM DAILY AMOUNT  |  |  |  |  |  |  |  |  |  | 221 |  |
| 5000  |  |  |  |  |  |  |  |  |  | 222 |  |
| ANNUAL WASTE AMOUNT   |  |  |  |  |  |  |  |  |  | 223 |  |
| 10,000  |  |  |  |  |  |  |  |  |  | 224 |  |
| UNITS (Check one item only)   |  |  |  |  |  |  |  |  |  | 225 |  |
| <input type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input checked="" type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS   |  |  |  |  |  |  |  |  |  | 226 |  |
| STORAGE CONTAINER   |  |  |  |  |  |  |  |  |  | 227 |  |
| <input type="checkbox"/> a. ABOVE GROUND TANK <input type="checkbox"/> e. PLASTIC/NONMETALLIC DRUM <input type="checkbox"/> f. FIRE DRUM <input type="checkbox"/> g. GLASS BOTTLE <input type="checkbox"/> h. RAIL CAR<br><input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> f. CAN <input type="checkbox"/> i. BAG <input type="checkbox"/> n. PLASTIC DRUM <input type="checkbox"/> r. OTHER<br><input type="checkbox"/> c. TANK INSIDE BUILDING <input type="checkbox"/> g. CARRY <input type="checkbox"/> k. BOX <input type="checkbox"/> o. TOTE BIN<br><input checked="" type="checkbox"/> d. STEEL DRUM <input type="checkbox"/> h. SLO <input type="checkbox"/> l. CYLINDER <input type="checkbox"/> j. TANK WAGON |  |  |  |  |  |  |  |  |  | 228 |  |
| STORAGE PRESSURE  |  |  |  |  |  |  |  |  |  | 229 |  |
| <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT  |  |  |  |  |  |  |  |  |  | 230 |  |
| STORAGE TEMPERATURE   |  |  |  |  |  |  |  |  |  | 231 |  |
| <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC  |  |  |  |  |  |  |  |  |  | 232 |  |

| # | %   | WT | HAZARDOUS COMPONENT (For mixture or waste only) | FHS  | CAS # |
|---|-----|----|---|--|-------|
| 1 | 233 |    |   | <input type="checkbox"/> Yes <input type="checkbox"/> No | 234   |
| 2 | 235 |    |   | <input type="checkbox"/> Yes <input type="checkbox"/> No | 236   |
| 3 | 237 |    |   | <input type="checkbox"/> Yes <input type="checkbox"/> No | 238   |
| 4 | 239 |    |   | <input type="checkbox"/> Yes <input type="checkbox"/> No | 240   |
| 5 | 241 |    |   | <input type="checkbox"/> Yes <input type="checkbox"/> No | 242   |

Report hazardous components are present in greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, which additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here  
(Facilities reporting chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical)

|                   |    |     |               |          |      |             |  |  |
|-------------------|----|-----|---------------|----------|------|-------------|--|--|
| OFFICIAL USE ONLY |    |     | DATE RECEIVED |          |      | REVIEWED BY |  |  |
| DIV               | BN | SIA | OTHER         | DISTRICT | CUPA | PA          |  |  |

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per chemical per existing chemical)

☐ ADD ☐ DELETE ☒ REVISE REPORTING YEAR 2004 202 Page 53 of 56

## I. FACILITY INFORMATION

|  |  |  |  |  |  |  |  |  |  |     |
|--|--|--|--|--|--|--|--|--|--|-----|
| BUSINESS NAME (Same as FACILITY NAME or DSA Using Business AS) |  |  |  |  |  |  |  |  |  | 2   |
| EL SEGUNDO POWER, LLC  |  |  |  |  |  |  |  |  |  |     |
| CHEMICAL LOCATION  |  |  |  |  |  |  |  |  |  | 201 |
| HAZARDOUS WASTE STORAGE AREA                                   |  |  |  |  |  |  |  |  |  |     |
| FACILITY ID # 1 9 0 1 3 3 0 0 0 1 1                            |  |  |  |  |  |  |  |  |  | 204 |
| MAP# (optional) 1  |  |  |  |  |  |  |  |  |  | 203 |
| GRID# (optional) H   |  |  |  |  |  |  |  |  |  | 204 |

## II. CHEMICAL INFORMATION

|   |  |  |  |  |  |  |  |  |  |     |
|---|--|--|--|--|--|--|--|--|--|-----|
| CHEMICAL NAME   |  |  |  |  |  |  |  |  |  | 205 |
| NON-RCRA HAZ WASTE LIQUID   |  |  |  |  |  |  |  |  |  | 205 |
| COMMON NAME   |  |  |  |  |  |  |  |  |  | 207 |
| OILY WATER  |  |  |  |  |  |  |  |  |  | 207 |
| CAS#  |  |  |  |  |  |  |  |  |  | 209 |
| EHS   |  |  |  |  |  |  |  |  |  | 209 |
| If EHS is "Yes" all amounts below must be in lbs  |  |  |  |  |  |  |  |  |  |     |
| HAZARDOUS MATERIAL TYPE (Check one item only)   |  |  |  |  |  |  |  |  |  | 211 |
| <input type="checkbox"/> a. LIQUID <input type="checkbox"/> b. MIXTURE <input checked="" type="checkbox"/> c. WASTE   |  |  |  |  |  |  |  |  |  | 211 |
| RADIOACTIVE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   |  |  |  |  |  |  |  |  |  | 212 |
| CURIES  |  |  |  |  |  |  |  |  |  | 213 |
| PHYSICAL STATE (Check one item only)  |  |  |  |  |  |  |  |  |  | 214 |
| <input type="checkbox"/> a. SOLID <input checked="" type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS   |  |  |  |  |  |  |  |  |  | 214 |
| LARGEST CONTAINER   |  |  |  |  |  |  |  |  |  | 215 |
| 55  |  |  |  |  |  |  |  |  |  | 215 |
| FED HAZARD CATEGORIES (Check all that apply)  |  |  |  |  |  |  |  |  |  | 216 |
| <input type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE <input checked="" type="checkbox"/> d. ACUTE HEALTH <input type="checkbox"/> e. CHRONIC HEALTH   |  |  |  |  |  |  |  |  |  | 216 |
| AVERAGE DAILY AMOUNT  |  |  |  |  |  |  |  |  |  | 217 |
| 110   |  |  |  |  |  |  |  |  |  | 217 |
| MAXIMUM DAILY AMOUNT  |  |  |  |  |  |  |  |  |  | 218 |
| 1100  |  |  |  |  |  |  |  |  |  | 218 |
| ANNUAL WASTE AMOUNT   |  |  |  |  |  |  |  |  |  | 219 |
| 20,000  |  |  |  |  |  |  |  |  |  | 219 |
| STATE WASTE CONF  |  |  |  |  |  |  |  |  |  | 220 |
| 134/223   |  |  |  |  |  |  |  |  |  | 220 |
| UNITS* (Check one item only)  |  |  |  |  |  |  |  |  |  | 221 |
| <input checked="" type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS   |  |  |  |  |  |  |  |  |  | 221 |
| * If EHS "radioactive" must be in pounds  |  |  |  |  |  |  |  |  |  |     |
| STORAGE CONTAINER   |  |  |  |  |  |  |  |  |  | 222 |
| <input type="checkbox"/> a. ABOVE GROUND TANK <input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> c. TANK INSIDE BUILDING <input checked="" type="checkbox"/> d. STEEL DRUM <input type="checkbox"/> e. PLASTIC OR METAL TANK <input type="checkbox"/> f. CAN <input type="checkbox"/> g. CARBOY <input type="checkbox"/> h. SILO <input type="checkbox"/> i. FIBER DRUM <input type="checkbox"/> j. BAG <input type="checkbox"/> k. BOX <input type="checkbox"/> l. CYLINDER <input type="checkbox"/> m. GLASS BOTTLE <input type="checkbox"/> n. PLASTIC BOTTLE <input type="checkbox"/> o. TUB <input type="checkbox"/> p. TANK WAGON <input type="checkbox"/> q. RAIL CAR <input type="checkbox"/> r. OTHER |  |  |  |  |  |  |  |  |  | 222 |
| STORAGE PRESSURE  |  |  |  |  |  |  |  |  |  | 224 |
| <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT  |  |  |  |  |  |  |  |  |  | 224 |
| STORAGE TEMPERATURE   |  |  |  |  |  |  |  |  |  | 225 |
| <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC  |  |  |  |  |  |  |  |  |  | 225 |

| S&WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS   | CAS # |
|------|---|---|-------|
| 1    |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |
| 2    |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |
| 3    |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |
| 4    |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |
| 5    |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |

If more hazardous components are present at greater than 1% by weight of non-carcinogenic, or 0.1% by weight of carcinogenic, attach additional sheets of paper capturing the required information.

## ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical)

|                   |    |     |       |               |      |             |  |
|-------------------|----|-----|-------|---------------|------|-------------|--|
| OFFICIAL USE ONLY |    |     |       | DATE RECEIVED |      | REVIEWED BY |  |
| CIV               | HN | STA | DTFPR | DISTR CT      | CJFA | PA          |  |

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD

☐ DELETE

☒ REVISE

REPORTING YEAR 2004

200

Page 5 of 55

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

2

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

HAZARDOUS WASTE STORAGE AREA

201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

203

FACILITY ID #

1 9 0 1 3 3 0 0 0 1 1

204 MAP# (optional)

1

205 GRID# (optional)

H

## II. CHEMICAL INFORMATION

CHEMICAL NAME

206 TRADE SECRET ☐ Yes ☒ No

208

NON RCRA HAZ WASTE LIQUID

PLEASE USE EPCRA, rather than MSDS

COMMON NAME

CITRIC ACID & WATER

207 EHS# ☐ Yes ☒ No

209

CA5A

210 IF EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (as listed by CUPA)

HAZARDOUS MATERIAL

TYPE (Check one item only)

☐ a. PURE

☐ b. MIXTURE

☒ c. WASTE

211

RADIOACTIVE ☐ Yes ☒ No

212

QUANTITY

PHYSICAL STATE

(Check one item only)

☐ a. SOLID

☒ b. LIQUID

☐ c. GAS

213

LARGEST CONTAINER

55

215

RCRA HAZARD CATEGORIES

(Check all that apply)

☐ a. FIRE

☒ b. REACTIVE

☐ c. PRESSURE RELEASE

☒ d. ACUTE HEALTH

☐ e. CHRONIC HEALTH

216

AVERAGE DAILY AMOUNT

55

217 MAXIMUM DAILY AMOUNT

210

218

ANNUAL WASTE AMOUNT

219

220 STATE WASTE CODE

135

UNITS\*

(Check one item only)

☒ a. GALLONS

☐ b. CUBIC FEET

☐ c. POUNDS

☐ d. TONS

\* If F-25, amount must be in pounds

221

222 DAYS ON SITE

365

STORAGE

CONTAINER

☐ a. ABOVE GROUND TANK

☐ b. UNDERGROUND TANK

☐ c. TANK INSIDE BUILDING

☒ d. STEEL DRUM

☐ e. PLASTIC/METALLIC DRUM

☐ f. CAN

☐ g. CARBOY

☐ h. BULK

☐ i. FIBER DRUM

☐ j. BAG

☐ k. BOX

☐ l. CYLINDER

☐ m. GLASS BOTTLE

☐ n. PLASTIC BOTTLE

☐ o. TOTE BIN

☐ p. TANK WAGON

☐ q. RAIL CAR

☐ r. OTHER

223

STORAGE PRESSURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

224

STORAGE TEMPERATURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

☐ d. CRYOGENIC

225

| %WT   | HAZARDOUS COMPONENT (For mixture or waste only) | EHS  | CAS # |
|-------|---|--|-------|
| 1 226 |   | 227 <input type="checkbox"/> Yes <input type="checkbox"/> No | 228   |
| 2 229 |   | 230 <input type="checkbox"/> Yes <input type="checkbox"/> No | 231   |
| 3 232 |   | 233 <input type="checkbox"/> Yes <input type="checkbox"/> No | 234   |
| 4 235 |   | 236 <input type="checkbox"/> Yes <input type="checkbox"/> No | 237   |
| 5 238 |   | 239 <input type="checkbox"/> Yes <input type="checkbox"/> No | 240   |
| 6 241 |   | 242 <input type="checkbox"/> Yes <input type="checkbox"/> No | 243   |
| 7 244 |   | 245 <input type="checkbox"/> Yes <input type="checkbox"/> No | 246   |

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional pages of paper capturing the required information.

249

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(Use space alternately for building or street)

☐ ADD

☐ DELETE

☒ REVISE

REPORTING YEAR 2004

Page 53 of 56

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or UHA - Doing Business As)

EL SFGUNDO POWER, LLC

CHEMICAL LOCATION

200 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

HAZARDOUS WASTE STORAGE AREA

FACILITY ID#

1 9 0 1 3 5 0 0 0 1 1

MAP# (optional)

201 GRID# (optional)

H

## II. CHEMICAL INFORMATION

CHEMICAL NAME

NON RCRA HAZ WASTE SOLID

206 TRADE SECRET

☐ Yes ☒ No

(If Subject to EPCRA, indicate exemption)

COMMON NAME

LAB PACK

207 EHS\*

☐ Yes ☒ No

CAS#

208 \*If EHS is "Yes" all amounts below must be in lbs

FIRE CODE HAZARD CLASSIFICATION (Complete if required by CUPA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☐ a. PURE

☐ b. MIXTURE

☒ c. WASTE

210

RADIOACTIVE ☐ Yes ☒ No

212 DRIES

PHYSICAL STATE (Check one item only)

☒ a. SOLID

☐ b. LIQUID

☐ c. GAS

214

UNGLASSIFIED CONTAINER 100

FFD HAZARD CATEGORIES (Check all that apply)

☒ a. FIRE

☐ b. REACTIVE

☐ c. PRESSURE RELEASE

☒ d. ACUTE HEALTH

☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

100

217 MAXIMUM DAILY AMOUNT

100

218 ANNUAL WASTE AMOUNT

100

219 STATE WASTE CODE

331

UNITS\* (Select one item only)  
STORAGE

☐ a. GALLONS

☐ b. CUBIC FEET

☒ c. POUNDS

☐ d. TONS

220 DAYS ON SITE

365

CONTAINER

☐ a. ABOVE GROUND TANK

☐ b. UNDERGROUND TANK

☐ c. TANK INSIDE BUILDING

☐ d. STEEL DRUM

☐ e. PLASTIC/NONMETALLIC DRUM

☐ f. CAN

☐ g. BARREL

☐ h. BULK

☐ i. FIBER DRUM

☐ j. BAG

☐ k. BOX

☐ l. CYLINDER

☐ m. GLASS BOTTLE

☐ n. PLASTIC BOTTLE

☐ o. TOTE BIN

☐ p. TANK WAGON

☐ q. RAIL CAR

☒ r. OTHER

LAB PACK

STORAGE PRESSURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☒ a. AMBIENT

☐ b. ABOVE AMBIENT

☐ c. BELOW AMBIENT

☐ d. CRYOGENIC

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | CHS  | CAS # |
|-----|---|--|-------|
| 1   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |
| 2   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |
| 3   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |
| 4   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |
| 5   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |

If more hazardous components are present at greater than 1% by weight (for inorganic) or 0.1% by weight (for organic), attach additional sheets of paper containing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

(EPCRA, Please Sign Here)

Facilities reporting chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

This page contains confidential information

☐ ADD

☐ DELETE

☒ REVISE

REPORTING YEAR 2004

Page 53 of 56

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME on DSA – Nonp Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

HAZARDOUS WASTE STORAGE AREA

CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID#

1 9 0 1 3 3 0 0 0 1 1

MAP# (optional)

GRID# (optional)

## II. CHEMICAL INFORMATION

CHEMICAL NAME

AMMONIUM HYDROXIDE

TRADE SECRET ☐ Yes ☒ No

If Subject to EPCRA, select instructions

COMMON NAME WASTE CAUSTIC ALKALI, LIQUID

E-15 ☐ Yes ☒ No

CASE#

If E15 is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete Reg. 302 b, CUPA)

HAZARDOUS MATERIAL TYPE (Check one item only)

☒ a. PURE ☐ b. MIXTURE ☒ c. WASTE

RADIOACTIVE ☐ Yes ☒ No

CURIES

PHYSICAL STATE (Check one item only)

☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

LARGEST CONTAINER 55

FEC HAZARD CATEGORIES (Check all that apply)

☐ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

MAXIMUM DAILY AMOUNT

ANNUAL WASTE AMOUNT

STATE WASTE CODE

55

55

50

551

UNITS

☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS

DAYS ON SITE

365

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK ☒ b. PLASTIC/NONMETALLIC DRUM ☐ c. FIBER DRUM ☐ d. GLASS BOTTLE ☐ e. RAIL CAR  
☐ f. UNDERGROUND TANK ☐ g. CAN ☐ h. BAG ☐ i. PLASTIC BOTTLE ☐ j. OTHER  
☐ k. TANK INSIDE BUILDING ☐ l. CARBOY ☐ m. BOX ☐ n. TOTE BIN  
☐ o. STEEL DRUM ☐ p. CILINDER ☐ q. TANK WAGON

STORAGE PRESSURE

☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE

☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

| SWI | HAZARDOUS COMPONENT (For mixture or waste only) | EHS  | CAS # |
|-----|---|--|-------|
| 1   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |
| 2   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |
| 3   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |
| 4   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |
| 5   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |

If more than one component, attach label at greater than 1% by weight of any carcinogens, or 1.1% by weight of carcinogens. Attach additional sheets of label capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for name EPCRA reported chemical)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(Only check one material per building location)

☐ ADD

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REPORTING YEAR 2004

Page 54 of 56

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

HAZARDOUS WASTE STORAGE AREA

201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID # 1 9 0 1 3 3 0 0 0 1 1

MAP# (optional)

203 GRID# (optional)

H

## II. CHEMICAL INFORMATION

CHEMICAL NAME

205 TRADE SECRET ☐ Yes ☒ No  
Subject to EPCRA 906 to 906(d)(1)(B)

COMMON NAME WASTE FLAMMABLE LIQUID (LAB PACK)

207 EHS\* ☐ Yes ☒ No

CAS#

208 \*If EHS is "Yes" all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Exemption required by CUPA)

HAZARDOUS MATERIAL TYPE (Check one for only):  
☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE

211 RADIOACTIVE ☐ Yes ☒ No

212 CURIES

PHYSICAL STATE

(Check one item only) ☒ a. SOLID ☒ b. LIQUID ☐ c. GAS

214 LARGEST CONTAINER

55

HEU HAZARD CATEGORIES

(Check all that apply) ☒ a. FIRE ☒ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE ONLY AMOUNT

217 MAXIMUM DAILY AMOUNT

218 ANNUAL WASTE AMOUNT

219 STATE WASTE CODE

55

595

695

141/33\*

UNITS\*

(Check one item only)

☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS

221 DAYS ON SITE

365

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK ☒ b. PLASTIC/CONCRETE/HDPE DRUM ☐ c. FIBER DRUM ☐ d. GLASS BOTTLE ☐ e. RAIL CAR  
☐ f. UNDERGROUND TANK ☐ g. I. CAN ☐ h. BAG ☐ i. PLASTIC BOTTLE ☐ j. OTHER  
☐ k. TANK INSIDE BUILDING ☐ l. CARBOY ☐ m. BOX ☐ n. TOTE BIN  
☐ o. STEEL DRUM ☐ p. SLO ☐ q. CYLINDER ☐ r. TANK WAGON

STORAGE PRESSURE

☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT\*

STORAGE TEMPERATURE

☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | 215  | CAS # |
|-----|---|--|-------|
| 1   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |
| 2   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |
| 3   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |
| 4   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |
| 5   |   | <input type="checkbox"/> Yes <input type="checkbox"/> No |       |

\*If any hazardous components are present at greater than 1% by weight if non-carcinogenic or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information

ADDITIONAL LOCALLY COLLECTED INFORMATION

II EPCRA, Please Sign Here

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(one page maximum per hazardous material)

☐ ADD

☐ DELETE

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REPORTING YEAR 2004

Page 55 of 55

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME on DHA Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

HAZARDOUS WASTE STORAGE AREA

201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO

FACILITY ID # 1 9 0 1 3 3 0 0 0 1 1

202 MAP# (optional) 1

203 GRID# (optional) 1

## II. CHEMICAL INFORMATION

CHEMICAL NAME

MERCURY THIOCYANATE

204 TRADE SECRET ☐ Yes ☒ No

COMMON NAME WASTE MERCURY THIOCYANATE/LIQUID

205 EHS\* ☐ Yes ☒ No

CAS#

206 \*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA)

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE

207 RADIOACTIVE ☐ Yes ☒ No 208 CURIES

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

209 LARGEST CONTAINER 55

FFD HAZARD CATEGORIES (Check all that apply)

☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT

55

210 MAXIMUM DAILY AMOUNT

55

211 ANNUAL WASTE AMOUNT

65

212 STATE WASTE CODE

725

UNITS\* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS

213 DAYS ON SITE 365

STORAGE

CONTAINER ☐ a. ABOVE GROUND TANK ☒ b. PLASTIC/NONMETALLIC DRUM ☐ c. FIBER DRUM ☐ d. GLASS BOTTLE ☐ e. RAIL CAR  
☐ f. UNDERGROUND TANK ☐ g. DRY ☐ h. BAG ☐ i. PLASTIC BOTTLE ☐ j. OTHER  
☐ k. TANK INSIDE BUILDING ☐ l. CASKET ☐ m. BOX ☐ n. TOTE BIN  
☐ o. STEEL DRUM ☐ p. SLO ☐ q. CYLINDER ☐ r. TANK WAGON

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

| %WT | HAZARDOUS COMPONENT (For mixture or waste only) | EHS   | CAS # |
|-----|---|---|-------|
| 1   |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |
| 2   |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |
| 3   |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |
| 4   |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |
| 5   |   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |

If more hazardous components are present at greater than 1% by weight if benzenesoluble, or 5% by weight if carcinogen, attach additional sheets of paper capturing this required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

(Facilities reporting chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical)

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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(Use space for initials per 10/10/00 rule)

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☐ DELETE

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REPORTING YEAR 2004

200

Page 58 of 58

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

EL SEGUNDO POWER, LLC

CHEMICAL LOCATION

HAZARDOUS WASTE STORAGE AREA

201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) ☐ YES ☒ NO 202

FACILITY ID# 1 9 0 1 3 3 0 0 0 1 1

203 MAP# (optional) 1

204 GRID# (optional) H

## II. CHEMICAL INFORMATION

CHEMICAL NAME

WASTE FLAMMABLE SOLID, ORGANIC

205 TRADE SECRET ☐ Yes ☒ No 206

If Subject to EPCRA, rules for notification

COMMON NAME PAINT DEBRIS

207 EHS# ☐ Yes ☒ No 208

CAS#

209 \*If EHS is "Yes", as amounts below must be in lbs

FIRE CODE HAZARD CLASSES (Complete if required by CUPA)

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE 211

212 RADIOACTIVE ☐ Yes ☒ No 213

PHYSICAL STATE (Check one item only) ☒ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

215 LARGEST CONTAINER 500

RED HAZARD CATEGORIES (Check all that apply)

☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT

500

217 MAXIMUM DAILY AMOUNT

4150

218 ANNUAL WASTE AMOUNT

4150

219 STATE WASTE CODE

352

UNITS\* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☒ c. POUNDS ☐ d. TONS 220

\*If EHS "Amount" must be in pounds.

221 DAYS ON SITE

365

STORAGE CONTAINER

☐ a. ABOVE GROUND TANK ☐ b. PLASTIC/NONMETALLIC DRUM ☐ c. FIBERGLASS ☐ d. GLASS BOTTLE ☐ e. RAIL CAR  
☐ f. UNDERGROUND TANK ☐ g. CAN ☐ h. BAG ☐ i. PLASTIC BOTTLE ☐ j. OTHER  
☐ k. TANK INSIDE BUILDING ☐ l. CARBOY ☐ m. BOX ☐ n. TOTE BIN  
☒ o. STEEL DRUM ☐ p. SILO ☐ q. CYLINDER ☐ r. TANK WAGON 222

STORAGE PRESSURE

☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 223

STORAGE TEMPERATURE

☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 224

| %WT   | HAZARDOUS COMPONENT (For mixture or waste only) | EHS  | CAS # |
|-------|---|--|-------|
| 1 225 |   | <input type="checkbox"/> Yes <input type="checkbox"/> No 226 | 227   |
| 2 228 |   | <input type="checkbox"/> Yes <input type="checkbox"/> No 229 | 230   |
| 3 231 |   | <input type="checkbox"/> Yes <input type="checkbox"/> No 232 | 233   |
| 4 234 |   | <input type="checkbox"/> Yes <input type="checkbox"/> No 235 | 236   |
| 5 237 |   | <input type="checkbox"/> Yes <input type="checkbox"/> No 238 | 239   |
| 6 240 |   | <input type="checkbox"/> Yes <input type="checkbox"/> No 241 | 242   |
| 7 243 |   | <input type="checkbox"/> Yes <input type="checkbox"/> No 244 | 245   |

From hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic. Attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

EPCRA, Please Sign Here

Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.

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***Section 7.0***  
***EPA Form 2C***  
***Appendix D***  
***Storm Water Pollution Prevention Plan***

**NRG EL SEGUNDO OPERATIONS INC.  
EL SEGUNDO POWER, LLC  
STATION PROCEDURE: EL SP 8-12**

**STORM WATER POLLUTION PREVENTION PLAN  
(SWPPP) & MONITORING PROGRAM**

**EL SEGUNDO POWER, LLC**

**301 Vista Del Mar Boulevard  
El Segundo, California 90245  
(310) 615-6028**

**June 25, 2004**

**NRG EL SEGUNDO OPERATIONS INC.  
EL SEGUNDO POWER, LLC**

**EL SEGUNDO GENERATING STATION  
STORM WATER POLLUTION PREVENTION PLAN**

**PROCEDURE 8-12-A**

---

**I. INTRODUCTION**

El Segundo Power, LLC owns and operates a steam electric power plant located at 301 Vista Del Mar Boulevard, El Segundo, Los Angeles County, California, 90245 (the Station). The Station consists of one operating power block and one inoperative power block, each containing two steam electric generating units with a total in-service generating capacity of 670 MegaWatts (MW). The Station discharges wastewater and storm water to the Pacific Ocean as authorized by the California Regional Water Quality Control Board (RWQCB) NPDES Permit Number CA0001147, Order No. 00-084 (the Site-Specific Permit). This permit authorizes discharges of storm water and non-storm water (once through cooling water and industrial wastewater) under the federal storm water effluent limitations guidelines for Steam Electric Power Generating Point Source Category (40 CFR Part 423).

A storm water easement to the City of El Segundo is located along the non-industrial, southern portion of the Station. Storm water from Vista Del Mar Boulevard enters the Station from an underground pipeline located at the southeast boundary of the Station that discharges into a paved surface swale that conveys the storm water to its ultimate discharge to the Pacific Ocean on the southwest corner of the Station. This discharge is regulated under the NPDES permit for discharges from municipal separate storm sewers (MS4s) issued to Los Angeles County and the cities in Los Angeles County by the RWQCB. Since this storm water discharge does not come into contact with the Station's industrial processes nor is it under the control or the responsibility of the Station, and is separately permitted by the RWQCB, it is not addressed under this Storm Water Pollution Prevention Plan (SWPPP).

This SWPPP has been developed for the Station to address the requirements of the Industrial Activities General Storm Water NPDES Permit issued by the State Water Resources Control Board (CAS000001) (General Industrial Storm Water Permit). The SWPPP is intended for use in conjunction with Station Procedure EJ. 8-12-B, Storm Water Monitoring Program.

The SWPPP has two major objectives:

- A. To identify and evaluate sources of pollutants associated with industrial activities that may affect the quality of storm water prior to it commingling with the Station's non-storm water discharge.
- B. To identify and implement site-specific best management practices (BMPs) to reduce or prevent pollutants associated with industrial activities in storm water. BMPs may include a variety of pollution prevention measures or other low-cost and pollution control measures. They are generally categorized as *non-structural* BMPs (activity schedules, training, staging of spill cleanup materials, prohibitions of practices, maintenance procedures, and other low-cost measures) and as *structural* BMPs (treatment measures, run-off controls, secondary containment, overhead coverage).

**II. FACILITY PLANS AND PROCEDURES**

The SWPPP incorporates by reference the following existing plans and procedures:

**NRG EL SEGUNDO OPERATIONS INC.  
EL SEGUNDO POWER, LLC**

**EL SEGUNDO GENERATING STATION  
STORM WATER POLLUTION PREVENTION PLAN**

**PROCEDURE 8-12-A**

- Station Procedure EL 8-1: Spill Prevention, Control and Countermeasures (SPCC) Plan;
- Station Procedure EL 8-2: Hazardous Materials & Hazardous Waste Management Plan;
- Station Procedure EL A-122: Chemical and Lube Oil Deliveries.
- Station Order EL 7-1: Emergency Preparedness and Emergency Response Plan;
- Station Order EL-06: Oil and Hazardous Substance Spill Contingency Plan;
- Station Order EL 0 103, Locking of Critical Valves;
- Unified Program Hazardous Materials Business Plan.

**III. PLAN AMENDMENT AND IMPLEMENTATION**

A copy of the SWPPP shall be retained on site and made available upon request. The Station shall submit a SWPPP revision and implementation schedule if the RWQCB or the Fire Department determines that the SWPPP does not meet the minimum requirements. The SWPPP must be revised prior to changes in industrial activities that may significantly change the quantities of pollutants in storm water discharge or introduce a new pollutant source at the Station.

**IV. PLAN CERTIFICATION**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name: Audun Aaberg  
Title: Regional Plant Manager  
  
Signature:   
By: El Segundo Power, LLC  
NRG El Segundo Operations, Inc.  
It's Authorized Agent

Date: 6/25/04

**V. POLLUTION PREVENTION TEAM**

The Regional Plants Manager, Audun Aaberg, has overall responsibility for compliance with the SWPPP. The Environmental Supervisor, Alex Sanchez, is responsible for conducting all monitoring program activities as well as assisting the Regional Plants Manager in the development and implementation of the SWPPP.

**NRG EL SEGUNDO OPERATIONS INC.  
EL SEGUNDO POWER, LLC**

**EL SEGUNDO GENERATING STATION  
STORM WATER POLLUTION PREVENTION PLAN**

**PROCEDURE 8-12-A**

---

**VI. FACILITY DESCRIPTION AND SITE MAP**

El Segundo Power, LLC is located at 301 Vista Del Mar Boulevard, El Segundo, County of Los Angeles, California, 90245 (the Station). The Station is located on a 39.49-acre site bounded on the west by the Pacific Ocean, on the north by Chevron U.S.A. property, on the east by Vista Del Mar Boulevard and on the south by 45th Street and residential neighborhoods.

Surface water drainage is collected by a system of drains and sumps that discharge through one of two Oil/Water Separators and into one of the two outfall tunnels to the Pacific Ocean. Surface water drainage is commingled in the outfall tunnels with the Station's in-plant wastewater and cooling water being discharge to the Pacific Ocean. The impact that the quality of storm water has on the overall quality of the water discharged from the Station will generally be insignificant. Nonetheless, this SWPPP is designed to specifically address the quality of the storm water component of the total discharge from the Station. The non-storm water components are addressed by the conditions of the Station's Site-Specific Permit.

**A. SITE MAP**

Figure 1 provides a site layout showing the Station boundary, major structures and site features, facility drainage systems, and potential pollutant sources.

**B. NON-INDUSTRIAL AREAS AND STORM WATER EASEMENT**

A steep, vegetation-covered slope is located along the eastern portion of the Station that extends from Vista Del Mar Boulevard at 92 feet above sea level to the industrial portion of the Station at 20 feet above sea level. There are no industrial activities conducted in this area.

A storm water easement to the City of El Segundo is located along the non-industrial, southern portion of the Station. Storm water from Vista Del Mar Boulevard enters the Station from an underground pipeline located at the southeast boundary of the Station that discharges into a paved surface swale that conveys the storm water to its ultimate discharge to the Pacific Ocean on the southwest corner of the Station. This discharge is regulated under the NPDES permit for discharges from municipal separate storm sewers (MS4s) issued to Los Angeles County and the cities in Los Angeles County by the RWQCB. Since this storm water discharge does not come into contact with the Station's industrial processes nor is it under the control or the responsibility of the Station, and is separately permitted by the RWQCB, it is not addressed under this Storm Water Pollution Prevention Plan (SWPPP).

**C. SITE DRAINAGE**

Station drainage includes both storm water and non-storm water that is collected and discharged to the Pacific Ocean through two concrete outfall tunnels (Outfalls No. 001 and 002) that extend from each of the two intake structures located on the west side of the Station. The intake structures discharge the water approximately 2,000 feet offshore.

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The discharge, including storm water, is regulated under the Station's Site-Specific Permit. The Station's Site Specific Permit incorporates the requirements of the General Industrial Storm Water Permit.

Two main drainage systems consisting of catch basins, floor drains, pipelines and oil/water separators are provided at the Station. Figure 1 illustrates the site layout, drainage systems and the location and routing of yard drains. A description of each drainage system is provided below.

**1. Storm Water Drainage**

In general, catch basins and drains from the asphalt-paved portions of the Station collect and convey storm water through an underground pipeline that drains to one of three in-ground, concrete storm water oil/water separators located adjacent to the Intake Structures. The oil/water separators discharge to the outfall tunnels is controlled by manual flow control valves:

- a) Each oil/water separator is equipped with manual valves on the discharge pipe that may be closed in the event of a release within the Station that may impact the quality of the discharge.
- b) Each storm water oil/water separator also has a manual bypass valve that is normally chain-locked in the closed position but that may be opened during heavy rainstorms with approval of the Shift Supervisor.

The opening and closing of the flow control valves is regulated in Station Order EL O-103 "Locking of Critical Valves" and are recorded in both Shift Supervisor's and the Unit's 3 & 4 Control Room log.

**2. In-Plant Wastewater Drainage**

In general, drains and catch basins located within each power block and adjacent concrete-paved areas collect and convey low-volume wastewaters through a pipeline system that drains to an in-ground concrete sump and oil/water separator located at each power block. The Unit 1-2 oil/water separator is connected to the Unit 3-4 oil/water separator that in turn transfers the wastewater to the retention basin for further treatment, if necessary. Once deemed acceptable for discharge, the retention basin is drained through an underground pipeline to the Unit 3-4 intake structure where it is commingled with single-pass ocean cooling water and storm water prior to its discharge through the outfall tunnel (Outfall No. 002) to the Pacific Ocean approximately 2,000 feet offshore.

**VII. LIST OF SIGNIFICANT MATERIALS**

Significant materials that are routinely present at the Station are identified in Appendix A. A complete list of hazardous materials is contained within the Unified Program Hazardous Business Plan.

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**VIII. DESCRIPTION OF POTENTIAL POLLUTANT SOURCES**

The primary industrial activity at the Station is the generation of electric power using two steam boiler electric generating units located within a structure known as a Power Block. The primary fuel for the steam boiler units is natural gas mixed with a blend of refinery flare gas. Other industrial activities at the site that support the power generation process include material storage and handling, and maintenance and cleaning activities.

**A. Material Storage and Handling Areas**

**1. Aboveground Storage Tank (AST) Systems**

- a) Oil-containing tanks and equipment are used for supporting the electric generating units and are described in Station Procedure 8-1, the Spill Prevention, Control, and Countermeasure (SPCC) Plan. The equipment is included in Appendix C and, although a text description is not included in this SWPPP, the information is incorporated by reference. The SPCC plan includes the quantity of oil, spill controls and secondary containment provided for each of these systems.
- b) Sodium hypochlorite is used to treat the circulating water system (seawater) that provides cooling to the generating units. Sodium hypochlorite is stored in a 650-gallon and a 3,700-gallon polyethylene tank located southwest and south of Unit 2, respectively. Each of the tanks is contained within a secondary containment structure designed to contain the total contents of the tank in the event of a release. The material is received by tanker truck from off-site sources.

**2. Underground Storage Tank System**

Ammonium Hydroxide is used in the stack emission reduction processes for the Unit 3 & 4 steam boilers. Ammonium hydroxide is stored in an underground storage tank (UST) located along the main entrance road as shown on Figure 1. The UST consists of a double-walled, fiberglass, 20,000-gallon tank that is equipped with interstitial continuous leak detection and overfill protection. The piping system is stainless steel and is predominantly above ground. Pipeline extensions below ground consist of double-walled stainless steel piping with interstitial continuous leak detection. The delivery of ammonium hydroxide is by tanker truck from off-site sources.

**3. Chemical Container Storage and Use**

Chemicals stored and used at the Station are received by truck from off-site sources in bulk or in drums. The some drummed materials are unloaded at the Warehouse, or at the material storage site. All drummed materials are stored on secondary containments. Bulk materials are unloaded at the material storage tank. Hazardous waste is primarily stored in U.S. Department of Transportation (D.O.T.) drums within the hazardous waste accumulation area. An inventory of these materials is contained within the Station's Hazardous Materials and Hazardous Waste Management Plan.

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**4. Maintenance and Cleaning Activities**

The generating units (i.e., condenser tubes, air preheater, etc.) require routine intermittent cleaning. The wastewater that is generated is known as chemical and non-chemical metal cleaning wastes that are collected in portable polyethylene storage tanks that are brought onsite, as needed, and placed within an engineered temporary secondary containment structure. The cleaning operations occur approximately once every five years per generating unit. The cleaning wastes are removed by tanker truck to an approved off-site location.

**5. Sediment Generating Activities**

Emission particulate matter from the generation units is strictly regulated by the Station's air quality permit and would not be expected to deposit any significant quantities of dust within the Station's boundaries. Non-routine maintenance and construction activities may intermittently generate dust and sediment as well as from the natural deterioration and corrosion of the Station's surfaces and equipment.

**6. Significant Spills and Leaks**

There has not been a spill or a leak of a reportable quantity (RQ) of oil or hazardous substance into the storm water discharge since the reporting date specified in the SWPPP regulation (April 17, 1994).

**7. Non-Storm Water Discharges**

**a) Non-Storm Water Discharges Authorized under the Station's Site-Specific Permit**

The Station discharges up to 607 million gallons per day (mgd) of water consisting primarily of once thru cooling water. The non-storm water sources are identified and described in the Station's Site Specific Permit and includes the following:

- Once-through cooling water;
- Treated wastes from the retention basin;
- In-plant wastewater including Power Block floor drain wastes, boiler blowdown, retention basin wastewater, air preheater wastes, hydrostatic test waters, condenser scrub water, and laboratory drains;
- Secondary treated sanitary waste from the Station's wastewater treatment unit.

**b) Authorized Non-Storm Water Discharges Under the General Permit**

Authorized non-storm water discharges that are authorized by the General Permit include the following:

- Fire hydrant flushing, potable water sources and landscape irrigation;
  - Atmospheric condensate (i.e. air conditioning)
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- Ground water
- Sea water intrusion.

**8. Soil Erosion**

The contour of the portions of the Station that are associated with industrial activities is predominantly flat and is paved with either asphalt or concrete. Non-industrial portions are predominantly landscaped to minimize the potential for soil erosion entering the Station's storm drain system.

**IX. ASSESSMENT OF POTENTIAL POLLUTANT SOURCES**

The Station's structural controls (i.e., diking, buildings, Power Blocks, drainage systems, etc.) prevent storm water from contacting pollutants in material storage areas and then being discharged directly. However, there is a potential for storm water to contact pollutants at the Station that are associated with the general grounds outside the areas that are controlled by diking and/or the in-plant wastewater drainage system (e.g., buildings, Power Blocks, and diked areas.). These areas are generally paved with asphalt or cement and are sloped to channel storm water to one or more drains of the storm water drainage system located throughout the Station.

- A. The most likely source of pollutants would be incidental contact with small pollutant releases associated with the movement of materials to and from areas that are provided specific structural controls (i.e., diked areas, buildings, Power Blocks, etc.). The most likely pollutants include oil, chemical cleaning wastes, sodium hypochlorite, and ammonium hydroxide, and metal constituents from deteriorated equipment and structures present at the Station. Additionally, sediments from the potential erosion of the landscaped areas and/or sand blown onto the facility from the adjoining beach may be a source of pollutants to storm water.
- B. The primary means of minimizing the potential pollutants from coming into contact with storm water is the implementation of BMPs discussed in Section VIII and summarized in Appendix C. In the event that these BMPs were to fail, a secondary means of control is provided by each of the drainage systems that are equipped with manual valves that can be completely shut-off to eliminate any discharges from the Station.

**X. STORM WATER BEST MANAGEMENT PRACTICES**

Existing storm water pollution prevention measures have been successful in addressing and eliminating likely sources of pollutants in storm water discharge. Review of the wastewater discharge monitoring sample analyses and observations have not revealed any pollutant problems. Therefore, no pollutants are expected to be present in storm water discharge in significant quantities.

**A. Non-Structural BMPs**

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1. **Good Housekeeping:** Operating personnel have been assigned housekeeping locations and are responsible for assuring that these areas are kept clean. Clean up is a component of every maintenance project and an inspection is made at the completion of each project to assure that the area is clean.
  2. **Preventive Maintenance:** Inspections of material storage and handling areas, retention basins, drainage sumps, and chemical/oil handling and storage areas are performed daily. Maintenance of all storm water conveyance devices is performed as needed based upon the results of the daily inspections.
  3. **Spill Response:** Areas containing significant materials (i.e., ASTs, USTs, container storage, and transformers) are secondarily contained as required by the Station's SPCC plan. Station personnel clean up minor spills promptly. Spill clean-up materials are maintained at various locations throughout the Station for this purpose. The Station maintains a current list of organizations that can supply manpower and materials required for a response to a major spill.
  4. **Material Handling and Storage:** A checklist is used for the unloading of all bulk hazardous liquids at the Station. The checklist addresses overfill prevention, area drainage concerns, and proper connecting and disconnecting of delivery tankers.
  5. **Employee Training:** Periodic formal and informal training sessions are held to instruct personnel in the proper operation and maintenance of equipment to prevent the discharge of materials into storm water discharges. Operator training on spill prevention, the SPCC plan, and the SWPPP is conducted as required. Known spill events or failures and precautionary measures are reviewed and discussed. All station personnel who, in the normal course of their job duties, are involved in the operation, maintenance, sampling, engineering or supervision of the Station receive a mix of classroom and on-the-job training, which includes recognition of upset conditions, notification and response to material spills, hazard communication and hazardous material handling. This training is designed to ensure that each employee understands his role in the operation and maintenance of the Station.
  6. **Waste Handling/Recycling:** Hazardous wastes are stored in U.S. DOT containers in accordance with hazardous waste generator requirements. The wastes are transported off-site to a DTSC-permitted disposal or recycling facility within 90 days of generation.
  7. **Record Keeping and Internal Reporting:** Daily inspections of facility grounds, equipment, and material storage areas are conducted and recorded by operating personnel. Any irregularities observed are noted on the inspection form and reported to the on-duty Shift Supervisor for immediate action. The daily inspection reports are maintained for five years.
  8. **Erosion Control and Site Stabilization:** Erosion and sediment control methods including berms, culverts, and drains are utilized to direct storm water to containment areas and prevent erosion.
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9. **Inspections:** As daily inspections are conducted, maintenance work orders are issued for all deficiencies and leaks. All inspections and records of corrective actions are maintained for a period of five years. Additionally, a visual inspection is conducted and recorded each quarter to observe all drainage areas within the Station for the presence of unauthorized non-storm water discharges.
10. **Environmental Assurance:** The Regional Plants Manager has overall responsibility for implementation of the provisions of the SWPPP. The Environmental Supervisor is responsible for conducting all monitoring program activities.

**3. Structural BMPs**

1. **Existing Overhead Coverage:** Overhead protection from storm water is provided in the chemical and oil container storage areas inside the Units Power Block structure and the warehouse. The hazardous waste accumulation area has an overhead cover, concrete foundation, and a secondary containment concrete curb.
2. **In-Plant Drainage System and Retention Basin:** In general, drains and catch basins located within each power block and adjacent concrete-paved areas discharge to a pipeline system and an oil/water separator located southwest of each power block. The Unit 1-2 oil/water separator is connected to the Unit 3-4 oil/water separator that in turn transfers the wastewater to the retention basin. Once deemed acceptable for discharge, the retention basin may be drained by manually opening the flow control valve and releasing the water through an underground pipeline to the Unit 3-4 outfall tunnel.

Each in-plant waste oil/water separator is equipped with a manual valve that may be closed in the event of an oil or hazardous materials spill to prevent contamination of the retention basin. The surface of the retention basin is routinely skimmed for oil that is collected in the Oil Separator Tank. The retention basin drain is manually opened after verifying the effluent will conform to established water quality requirements. Waste oil from the sumps, retention basin and retention basin oil skimmer is collected in an aboveground storage tank located adjacent to the retention basin. A permitted commercial hazardous waste contractor removes the waste oil from the property as needed.

3. **Storm Water Drainage System:** Surface water drainage from the industrial portions of the Station are controlled by the storm water drainage system.
  - a) The Station's catch basins and drains from the asphalt-paved portions of the Station discharge to an underground pipeline that drains to one of three in-ground oil/water separators that in turn discharge to the outfall tunnels. Two of the oil/water separators are located adjacent to the north and south sides of the Unit 1-2 Intake Structure while the third is located south of the Unit 3-4 Intake Structure.
  - b) Each storm water oil/water separator is equipped with a manual valve on its discharge outlet that may be closed in the event of an oil or hazardous materials spill to prevent its discharge to the Pacific Ocean.

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- c) Each storm water oil/water separator also has a manual bypass valve that is normally chain-locked in the closed position but that may be opened during heavy rainstorms with approval of the Shift Supervisor. Each oil/water separator has a four inch regulated outlet valve, which operates at 40 gallons per minute (gpm) and drains directly to the station outfall tunnel. In the event of heavy rains, the catch basins can be bypassed to allow adequate drainage and prevent yard flooding.
  - 4. Existing Control Devices: Identified potential pollutant sources are either sheltered from storm water or are surrounded by secondary containment which prevents storm water run-off from coming into contact with the pollutant source. There are sufficient storm water drains, which are interconnected by underground piping, to minimize the surface run-off exposure to potential pollutant sources.
  - 5. Existing Secondary Containment Structures: Bulk oil and bulk hazardous substance tanks are surrounded by secondary containment structures. Water that is accumulated within the containment area is generally insignificant and is allowed to evaporate.
- C. Newly Installed BMPs. Modifications that have taken place since 2002 are listed below. These changes have been incorporated in this updated SPCC.
- 1. Units 1 and 2 have been retired from service. Oil has been drained from the out-of-service equipment, including the Fuel Oil Delivery System pipeline, the Lube-Oil Storage Tanks and pipeline, and transformers associated with Units 1-2 (except a reservoir auxiliary transformer which remains in service).
  - 2. The manual control valves were installed on the storm water Oil/Water Separators.
  - 3. Additional asphalt berms were installed along the western and northern boundaries of the Station to minimize run-off and run-on respectively.
  - 4. An in-service inspection of the Units 3-4 Turbine Lube Oil System was performed.
  - 5. Inspections of valves and controls associated with the lube oil delivery system by API-trained personnel.
- D. Planned BMP's. Planned modifications to the Station include the following:
- 1. No later than February 18, 2005, the out-of-service equipment that has been drained and secured will be closed for SPCC purposes by cleaning the system to remove the remaining oil residues and posting signs indicating the effective date that they have been closed.
  - 2. A new Turbine Lube Oil conditioner unit may be installed in the Unit 3-4 power block.
  - 3. No later than July 1, 2004, a permanent secondary containment for the truck unloading area at Units 3 & 4 will be constructed to contain the volume of the largest delivery truck (5,500 gallons) plus 10 percent.
  - 4. No later than July 1, 2004, secondary containment will be installed around the six boiler circulating pump transformers located in the Unit 3-4 power block to contain the volume of the largest transformer plus 10 percent.
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5. No later than February 28, 2005, an API-qualified inspector will identify the necessary testing, maintenance and/or inspection practices and the schedule for implementing the recommendations for the Unit 3-4 Turbine Lube Oil System and the Oil Separator Tank (adjacent to the retention basin).

**XI. STORM WATER MONITORING PROGRAM**

The Station will perform visual inspections of the Station and collect storm water samples during storm events as described in the Storm Water Monitoring Program. The SWPPP shall be revised, as appropriate, and the revisions implemented within 90 days of the evaluation.

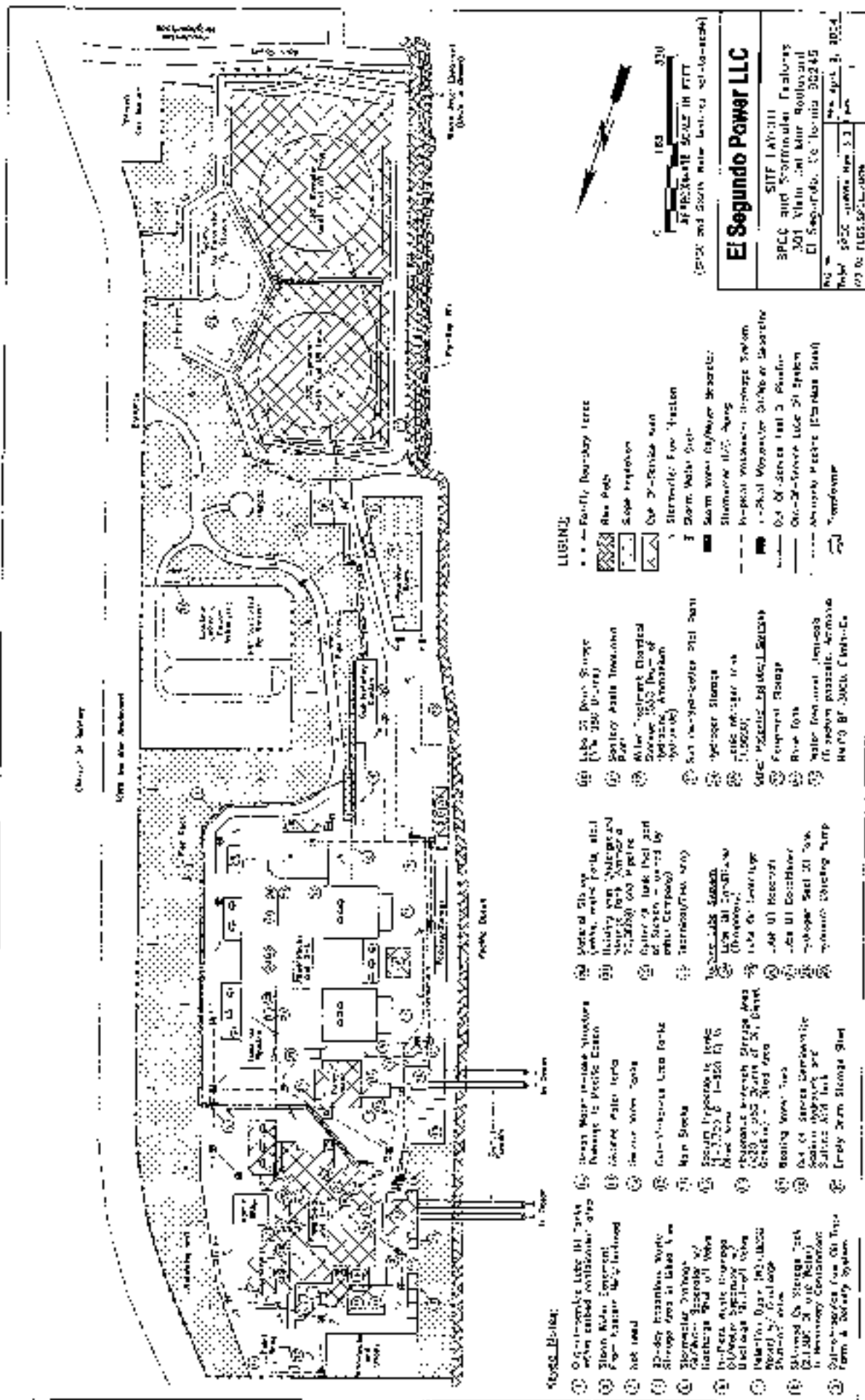
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**APPENDIX A**

**SITE LAYOUT SHOWING SPCC AND STORMWATER FEATURES**



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SITE 1A503H  
BPC and Semimolar Polystyrene  
Mol Weight Determination  
Cl-Semimolar Polystyrene 33245

|      |                 |   |     |      |
|------|-----------------|---|-----|------|
| Proj | 50°C -10000 Hrs | 3 | hrs | 20.4 |
| Proj | 50°C -10000 Hrs | 3 | hrs | 20.4 |
| Proj | 50°C -10000 Hrs | 3 | hrs | 20.4 |

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**APPENDIX B  
LIST OF SIGNIFICANT MATERIALS <sup>(1), (2)</sup>**

| <b>Hazardous Materials</b>  |                               |
|---|-------------------------------|
| <b>Material</b>   | <b>Location</b>               |
| Turbine Lube Oil  | Lubine Lube System and Drums  |
| Natural Gas   | Pipeline                      |
| Mineral Oil   | Transformers                  |
| Ammonium hydroxide  | Underground Storage Tank      |
| Metal Cleaning Waste  | Portable Containers           |
| 1.5% Sodium Hypochlorite solution   | Two Aboveground Tanks         |
| Gasoline and Diesel Fuel  | Containers                    |
| Water treatment chemicals (sodium nitrate, alkaline-solutions, etc.)                            | Containers and Portable Totes |
| Compressed gas cylinders of acetylene, oxygen, helium, argon, and hydrogen                      | Compressed Gas Cylinders      |
| Facility maintenance cleaners, lubricants, and paints   | Containers                    |
| Out-Of Service Fuel Oil No. 6 Tank and Delivery System  | Tank Farm and Pipeline System |
| <b>Non-Hazardous Materials</b>  |                               |
| Sand, silt and other sediment blown onto the Station from the adjoining beach and ocean;        | Outdoor surfaces              |
| Sediment and/or rust from deteriorating structures and equipment.                               | Outdoor surfaces              |
| Sediment from the potential erosion of landscaped areas and run-on from surrounding properties; | Outdoor surfaces              |

**Table Notes:**

- (1) For a complete listing of hazardous materials, see the Unified Program Hazardous Materials Business Plan;  
 (2) The Site Layout Showing SPCC and Stormwater Features identifies the location of the significant materials.

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APPENDIX C  
ASSESSMENT OF POTENTIAL POLLUTION SOURCES AND  
CORRESPONDING BEST MANAGEMENT PRACTICES SUMMARY \*\*

\*\* Table Notes:

- (1) The Site Layout Showing SFOC and Stormwater Features identifies the location of the significant materials.
- (2) BMPs corresponding to all potential sources are identified in the table below and include the following:
  - Security and locking of critical valves;
  - Good housekeeping and preventative maintenance of facility, equipment and structures;
  - Routine inspection;
  - Prompt clean up of material spills;
  - Employee training and written procedures to minimize material spills;
  - Storm water inspection and monitoring program.

| General | Potential Pollution Sources               |  | Corresponding Best Management Practices  |
|---------|---|--|--|
|         | Location of site structures and equipment | Material and particulates  |  |
| General | Erosion and sedimentation offsite         | Sediments  | <ul style="list-style-type: none"> <li>• Daily inspections</li> <li>• Routine housekeeping, preventative and repair maintenance</li> <li>• Routine removal of scrap materials and wastes</li> <li>• Landscape maintenance</li> <li>• Site paving and drainage systems</li> <li>• Routine housekeeping</li> </ul>   |
|         | Cleaning of boilers                       | Metal and combustion particulates  | <ul style="list-style-type: none"> <li>• Routine cleaning of gas passages to remove accumulated debris (Oust Sweep)</li> <li>• Dry cleaning methods only</li> <li>• Dust containment controls during cleaning (e.g., plastic sheeting containment, collection and packaging of waste, etc.)</li> <li>• Thorough clean-up (e.g., sweeping, vacuuming, removal of dust Sweep, etc.)</li> </ul>   |
|         | Maintenance                               | <ul style="list-style-type: none"> <li>• Wash waters</li> <li>• Grass clippings, debris</li> </ul> | <ul style="list-style-type: none"> <li>• Landscape contractor prohibited from using wet methods for grounds cleaning.</li> <li>• Landscape contractor required to collect grass clippings, debris, etc.</li> <li>• Janitorial contractor required to collect all wash, rinse liquids.</li> </ul>   |
|         | Lube Oil Storage Tank leak or overfill    | Turbine Lube Oil   | <ul style="list-style-type: none"> <li>• Power block concrete foundation and in-plant drainage system retention basin provides containment from uncontrolled discharge</li> <li>• Truck loading/unloading area provided with secondary containment</li> <li>• Oil pressure alarms and automatic shut-off</li> <li>• Unit drains chain-locked in closed position</li> <li>• Daily inspections</li> <li>• Attended at every truck unloading Station Order</li> </ul> |

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PROCEDURE 8-12A

| STORM WATER POLLUTION PREVENTION PLAN |   |   |
|---------------------------------------|---|---|
| Power Boilers (Unit 1, 2, 3, 4)       | Oil Drum Storage in Unit 3-4 Auxiliary Bay                  | Turbine Lubricating Oil   |
|                                       |   | <ul style="list-style-type: none"> <li>Tightness testing</li> <li>Power block concrete foundation and in-pipe and drainage system/restriction basin providing containment from uncontrolled discharge</li> <li>U.S. DOT drums</li> <li>Containment pallets or skids</li> <li>Power block floor drains</li> <li>Daily inspections</li> <li>Tanks provided with secondary containment</li> <li>Containment provided with secondary containment pallets</li> <li>Drainage system/restriction basin provides containment from uncontrolled discharge</li> <li>Daily inspections</li> <li>Metal roof</li> <li>Concrete foundation and containment</li> <li>U.S. DOT containers</li> <li>Daily inspections</li> <li>U.S. DOT drums</li> <li>Concrete foundation and secondary containment barriers</li> <li>Containment enclosures</li> <li>Daily inspections</li> <li>chipping and cutting</li> <li>High-temperature alarms on power transformers</li> <li>Daily inspections</li> <li>Rapid spill cleanup</li> <li>Contained within weirs and enclosures</li> <li>Float level indicator</li> <li>Overflow pipes</li> <li>Daily inspections</li> <li>Secondary containment walls</li> </ul> |
|                                       | Water Treatment Chemical Tank or Container leak or overflow | Sodium Hypochlorite   |
|                                       | Container leaks   | <ul style="list-style-type: none"> <li>Oil</li> <li>Contaminated debris</li> </ul>  |
| Hazardous Waste Storage Area          |   |   |
| Hazardous Material Storage Area       | Container leaks   | <ul style="list-style-type: none"> <li>Oil</li> <li>Water treatment chemicals</li> </ul>  |
| Electrical Transformers               | Leaks   | Mineral oil   |
| Retention Basin Oil Separator Tank    | Leaks, overfills  | Oil/water   |
| Hypochlorite Tanks x 2                | Leaks, overfills  | Hypochlorite solution   |
| Water Treatment Chemicals             | Leaks, overfills  | Water treatment chemicals   |
| Metal Cleaning Wastes                 | Leaks, overfills  | Metal cleaning wastes   |

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|   |                            |                      |  |
|---|----------------------------|----------------------|--|
| Underground Storage Tank and Pipeline               | Leaks, overfills           | Ammunium hydroxide   | <ul style="list-style-type: none"> <li>Double-walled fiberglass tank with leak detection and double-walled pipe line system</li> <li>Building enclosure</li> <li>Overfill protection</li> </ul>  |
|   | Leaks or residual material | Residual fuel oil    | <ul style="list-style-type: none"> <li>Drained of oil</li> <li>Power source locked out</li> <li>Terminal connections blank-flanged or capped</li> <li>Valves locked</li> <li>Daily inspections will continue until cleaned to remove any remaining residues</li> <li>Concrete foundations and curbs - cement berms</li> <li>Drained of oil</li> <li>Terminal connections blank flanged or capped</li> <li>Power source to pumps locked in off position or disconnected</li> <li>Valves locked in closed position</li> <li>Daily inspections will continue until cleaned to remove any remaining oil residues.</li> <li>Final is chain-lucked in closed position</li> </ul> |
| Out-Of-Service Lube Oil Storage and Delivery System | Leaks or residual material | Residual lube oil    | <ul style="list-style-type: none"> <li>Drained of oil</li> <li>Terminal connections blank flanged or capped</li> <li>Power source to pumps locked in off position or disconnected</li> <li>Valves locked in closed position</li> <li>Daily inspections will continue until cleaned to remove any remaining oil residues.</li> <li>Final is chain-lucked in closed position</li> </ul>  |
|   | Leaks or residual material | Residual lubricant   | <ul style="list-style-type: none"> <li>Drained of oil</li> <li>Terminal connections blank flanged or capped</li> <li>Power source to pumps locked in off position or disconnected</li> <li>Valves locked in closed position</li> <li>Daily inspections will continue until cleaned to remove any remaining oil residues.</li> </ul>  |
| Out-Of-Service Electrical Transformers              | Leaks or residual material | Residual mineral oil | <ul style="list-style-type: none"> <li>Curbed areas</li> <li>Drained of oil</li> <li>Daily inspections will continue until cleaned to remove any remaining oil residues.</li> </ul>  |
|   | Leaks or residual material | Residual mineral oil | <ul style="list-style-type: none"> <li>Curbed areas</li> <li>Drained of oil</li> <li>Daily inspections will continue until cleaned to remove any remaining oil residues.</li> </ul>  |

NRG EL SEGUNDO OPERATIONS INC.

EL SEGUNDO GENERATING STATION  
STORM WATER POLLUTION PREVENTION PLAN

PROCEDURE 8-12A

APPENDIX D

STORM WATER MONITORING PLAN

## EL SEGUNDO GENERATING STATION STORM WATER MONITORING PROGRAM

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Station Procedure EI. 8-12 B

### I. INTRODUCTION

This Storm Water Monitoring Program has been developed to comply with the conditions of the California State Water Resources Control Board Water Quality Order No. 97-03-DWQ (General Permit for Discharges of Storm Water Associated with Industrial Activities (the General Permit)). This document is designed to be used in conjunction with the Storm Water Pollution Prevention Plan, Station Procedure 8-12 A.

- A. Results from this monitoring program shall be reported to the State Water Resources Control Board by July 1 of every year as part of the Annual Report.
- B. Monitoring includes both storm water sampling and visual inspections of the facility as described in this procedure.
- C. The State "General Permit" requires that facilities subject to Federal Storm Water Effluent Limitation Guidelines (NPDES guidelines) shall analyze for applicable pollutants as specified in 40 CFR 423 (Subchapter N).

### II. IMPLEMENTATION

- A. Results from this monitoring program shall be documented and reported to the State Water Resources Control Board (SWRCB) by July 1 of every year as part of the Annual Report using the most current forms from the SWRCB.
- B. Monitoring includes visual inspections of the facility as described in this procedure.
- C. The State "General Permit" requires that facilities subject to Federal Storm Water Effluent Limitation Guidelines (NPDES guidelines) shall analyze for applicable pollutants as specified in 40 CFR 423 (Subchapter N).

### III. INSPECTIONS

- A. Quarterly Dry Inspections: Visual inspections of the outside grounds of the Station shall be performed at least once each quarter during dry conditions and shall document the presence of any of the following conditions:
  - 1. Any non-storm water discharges in the storm water drainage system (i.e., asphalt paving, storm drains, etc.) and clarifiers for the presence of any discoloration, stains, odors, floating materials, oil sheen, etc. Note: there are no "unauthorized" non-storm water discharges at the Station; non-storm water discharges are authorized by a Site-Specific Permit as discussed in the SWPPP.
  - 2. Staining, discoloration, and other signs of material releases on equipment, structures and/or pavement within the storm water drainage areas.

**EL SEGUNDO GENERATING STATION  
STORM WATER MONITORING PROGRAM**

**Station Procedure EL-8-12 B**

- 
- B. Monthly Storm Event Inspections: Visual inspections of the storm water accumulated at the Station (i.e., drainage areas and yard drains) shall be performed during one storm event per month during the wet season (i.e., October 1 through May 30). Visual inspections are only required if the event is preceded by at least three (3) working days without a storm water discharge. Inspections shall document the presence of any discoloration, stains, odors, floating materials, oil sheen, turbidity, or other signs of pollutants.
- C. Draining of Diked Storm Water: Visual inspections of storm water shall be performed prior to releasing any storm water from diked areas. Inspections shall document the presence of any discoloration, stains, odors, floating materials, oil sheen, turbidity, or other signs of pollutants. The drain valves may be opened to release accumulated storm water to the storm water drain system with approval of the Shift Supervisor.
- D. Annual Comprehensive Site Compliance Evaluation: An annual evaluation of the storm water program shall be performed of the overall SWPPP effectiveness. The evaluation shall be documented and include the date, name of personnel involved, noted concerns, and recommendations for improvement. This evaluation shall include the following:
1. Review of inspection and sampling records performed under this Storm Water Monitoring Plan;
  2. Review and evaluation of potential pollutant sources for evidence of, or the potential for, pollutants entering the storm water drainage system;
  3. Review and evaluation of the BMPs to determine whether the BMPs are adequate, properly implemented and maintained, or whether additional BMPs are needed. This shall include a visual inspection of spill response and clean-up equipment and supplies, housekeeping, employee training records, manual valves on the storm water clarifiers, and other signs of BMP effectiveness.

#### **IV. STORM WATER SAMPLING**

This section outlines the routine storm water sampling requirements. The Station has previously collected and tested two storm water samples for the priority pollutants identified in Appendix A to Part 423 of the Code of Federal Regulations. Based on the concentrations detected, the estimated volume of storm water and mass of each regulated pollutant has been determined.

A. Storm Water Sampling Frequency:

Sampling is required of storm water discharges that occur during scheduled facility operating hours and that are preceded by at least three (3) working days without a storm water discharge. In addition, sampling is not required due to dangerous weather conditions (e.g., flooding, electrical storm, etc.) A total of two storm events each wet season must be sampled.

**EL SEGUNDO GENERATING STATION  
STORM WATER MONITORING PROGRAM**

**Station Procedure EL 8-12 B**

Sampling shall be performed during the first hour of the first storm event of the wet season (i.e., October 1 through May 30) that a discharge is visibly evident. If samples are not collected during the above time, the reason that no samples were collected shall be recorded on the appropriate SWRCB Annual Report forms.

**B. Storm Water Sampling Locations.**

After inspecting the Station for unpermitted storm water discharges and reviewing available NPDES permit information, preferred sampling locations that adequately represent storm water prior to its commingling with other non-storm water sources have been identified. In conformance with these recommendations, storm water sampling shall be performed at the following locations:

- The easement drain at the southwest portion of the Station.

**C. Storm Water Sampling Procedures:**

Attachment 1 identifies specific procedures for collection of samples and pH analysis to be performed by facility personnel. These procedures are included in this monitoring program as Attachment 1 (Sampling of Storm Water Runoff).

**D. Storm Water Analysis:**

1. Storm water samples shall be tested by a laboratory accredited for the required tests by the Department of Health Services (DHS) Environmental Laboratory Accreditation Program (ELAP).
2. Sampling, preservation and testing shall be in accordance with "Standard Methods for the Examination of Water and Wastewater" (American Public Health Association).
3. Storm water samples shall be tested according to the test procedures under 40 CFR Part 136 for the following parameters:
  - i) Total suspended solids (TSS);
  - ii) pH;
  - iii) Specific conductance;
  - iv) Total organic carbon (TOC);
  - v) Oil and grease;
  - vi) Total iron.

**V. RECORD KEEPING**

- A. A record of the annual inspection must include the date of the inspection, the individual(s) who performed the inspection, and the observations of the inspection.

**EL SEGUNDO GENERATING STATION  
STORM WATER MONITORING PROGRAM**

**Station Procedure EL 8-12 B**

- B. A record of the dry season observations must include a description of the method used (visual, dye test, etc.), date of testing, locations observed, and observation or test results.
- C. Monthly wet season visual observations shall include the date of the inspection, the individual(s) who performed the inspection, and the observations of the inspection.
- D. Storm water sampling records shall include: 1) the date, time and place of sampling; 2) the date and time of analysis; 3) the individual who performed the analysis 4) the analytical techniques or methods used and the results of such analysis; and 5) quality assurance/quality control results.
- E. The facility shall submit an annual report by July 1 of each year to the Executive Officer of the RWQCB responsible for the area in which the facility is located.
- F. Records of all storm water monitoring information and copies of all reports required by the General Permit shall be retained for a period of at least five years from the date of the sample, observation, measurement, or report.

**VI. MANAGEMENT APPROVAL**

Name: Audun Aaberg  
Title: Regional Plants Manager

Signature: \_\_\_\_\_

El Segundo Power, LLC  
By: NRG El Segundo Operations  
It's Authorized Agent

Date: 6/25/24

***Section 8.0***  
***Toxicity Evaluation Report***



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

July 23, 2001

Mr. Alexander Sanchez  
NRG  
301 Vista Del Mar Blvd.  
El Segundo, CA 90245

Dear Mr. Sanchez:

We are pleased to present the following Toxicity Reduction Evaluation (TRE) workplan for the Long Beach Generating Station. This plan was prepared in accordance with requirements set forth in your NPDES Permit No. CA0001171.

Sincerely,

A handwritten signature in dark ink, appearing to read "Michael J. Machuzak".

Michael J. Machuzak  
Assistant Laboratory Director



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

July 23, 2001

Mr. Alex Sanchez  
NRG  
301 Vista Del Mar Blvd.  
El Segundo, CA 90245

Dear Mr. Sanchez:

Enclosed, please find one (1) original and three (3) copies of your Toxicity Reduction Evaluation (TRE) Workplan that is to be submitted to the Regional Water Board within 90 days of the effective date of your discharge permit.

Please feel free to phone me if you have any questions or need additional information.

Yours very truly,

A handwritten signature in black ink, appearing to read "Michael J. Machuzak", written over a horizontal line.

Michael J. Machuzak  
Assistant Laboratory Director



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

TOXICITY REDUCTION  
EVALUATION WORKPLAN  
FOR  
LONG BEACH GENERATION LLC  
(Long Beach Generating Station)  
Order No : 01-XXX  
NPDES Permit No.: CA0001171

Prepared: July 23, 2001

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## 1. INTRODUCTION

If Toxicity is detected, accelerated toxicity testing will be initiated as indicated in the orders. Further, a Toxicity Identification/Toxicity Reduction Evaluation (TIE/TRE) will be implemented immediately, if any three out of the initial tests and six additional tests results exceed 4.2 TU. This workplan will be followed to initiate a TIE/TRE within 15 days of exceedance. Consultations, inspections, and scheduled meetings with regulators will occur as necessary to facilitate the TRE/TIE process and again after the final report is submitted. The target time frame to complete the TRE/TIE study will be one year.

Monthly progress reports, quarterly data summaries, and a final report will be submitted to the Regional Water Quality Control Board, and the Environmental Protection Agency (EPA), and other parties as required. The monthly progress reports will summarize the work completed during the previous month as well as the anticipated schedule of work for the following month. Quarterly data summaries will include the data and results for the previous quarter as well as a tentative schedule of testing to occur during the next quarter. The final report will include the following: a summary of the entire TRE/TIE including all data and results; an identification of the source(s) of effluent toxicity; an evaluation of options for treating and/or preventing the toxicity; and corrective actions taken with a follow up study plan to evaluate any changes that are implemented.

The following sections describe the TRE/TIE workplan to be followed in the event of an NPDES permit exceedance. It is anticipated that these procedures will follow the flow chart as indicated in Table 1-1 and time line as indicated in Table 1-2.

In the event a Toxicity Identification Evaluation (TIE) is necessary, Aquatic Bioassay and Consulting, Inc. in Ventura, California, ELAP certification # 1907, will conduct the testing.

## 2. ACCELERATED TESTING/TOXICITY VERIFICATION

An accelerated test schedule in accordance with the NPDES Permit will begin immediately with the first permit exceedance. This accelerated test schedule will continue for a minimum of six additional tests. If a second permit limit exceedance occurs during the accelerated testing period then the TIE/TRE will continue in accordance with this workplan without completing the accelerated test schedule. If within six tests there are no permit limits exceeded then the TIE mode ends and normal testing is resumed. An attempt is made at this time to correlate the toxicity to a specific event. If an event is suspected additional testing will be scheduled to verify the toxicity.

TABLE 1-1. TOXICITY REDUCTION EVALUATION (TRE) FLOW CHART

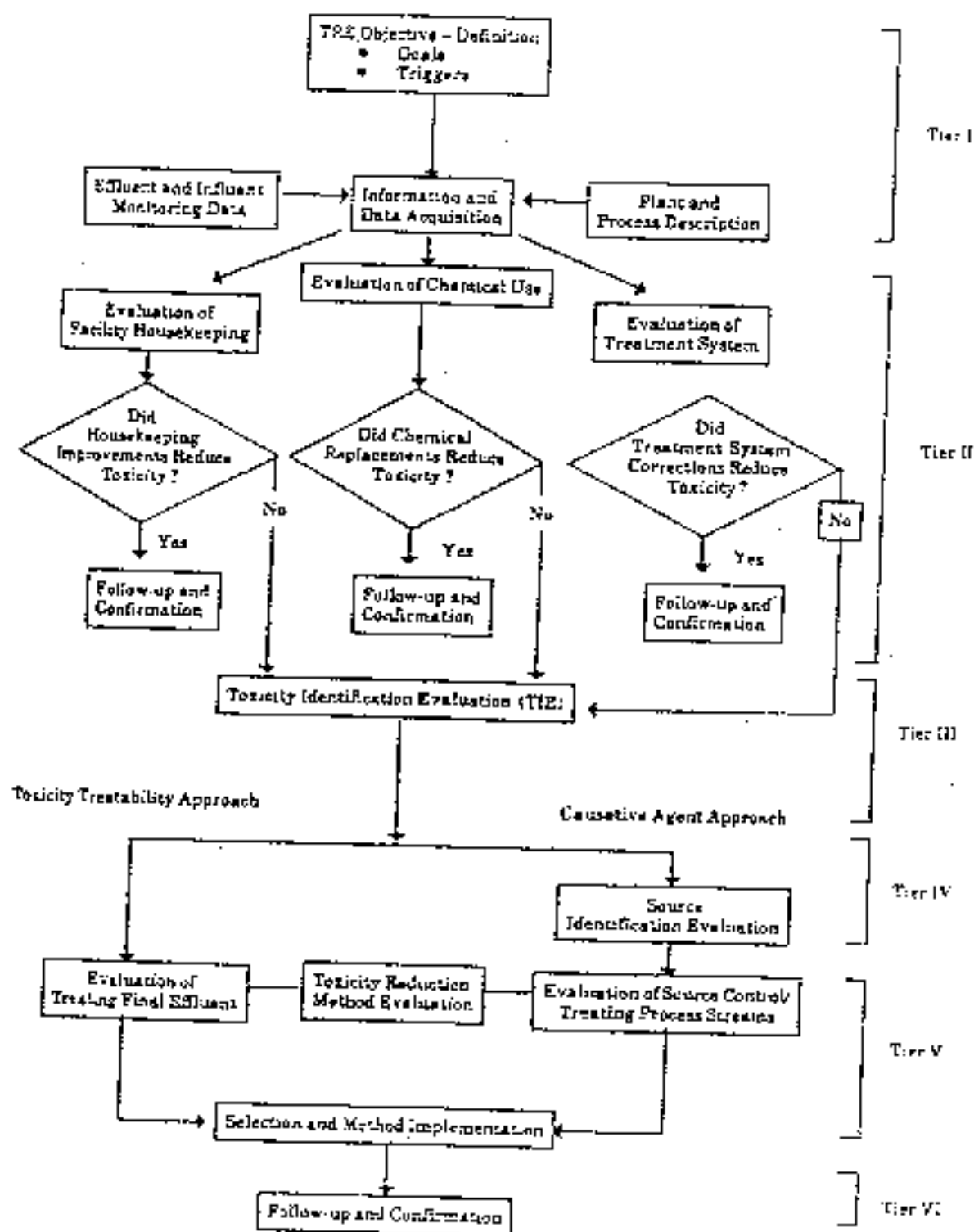
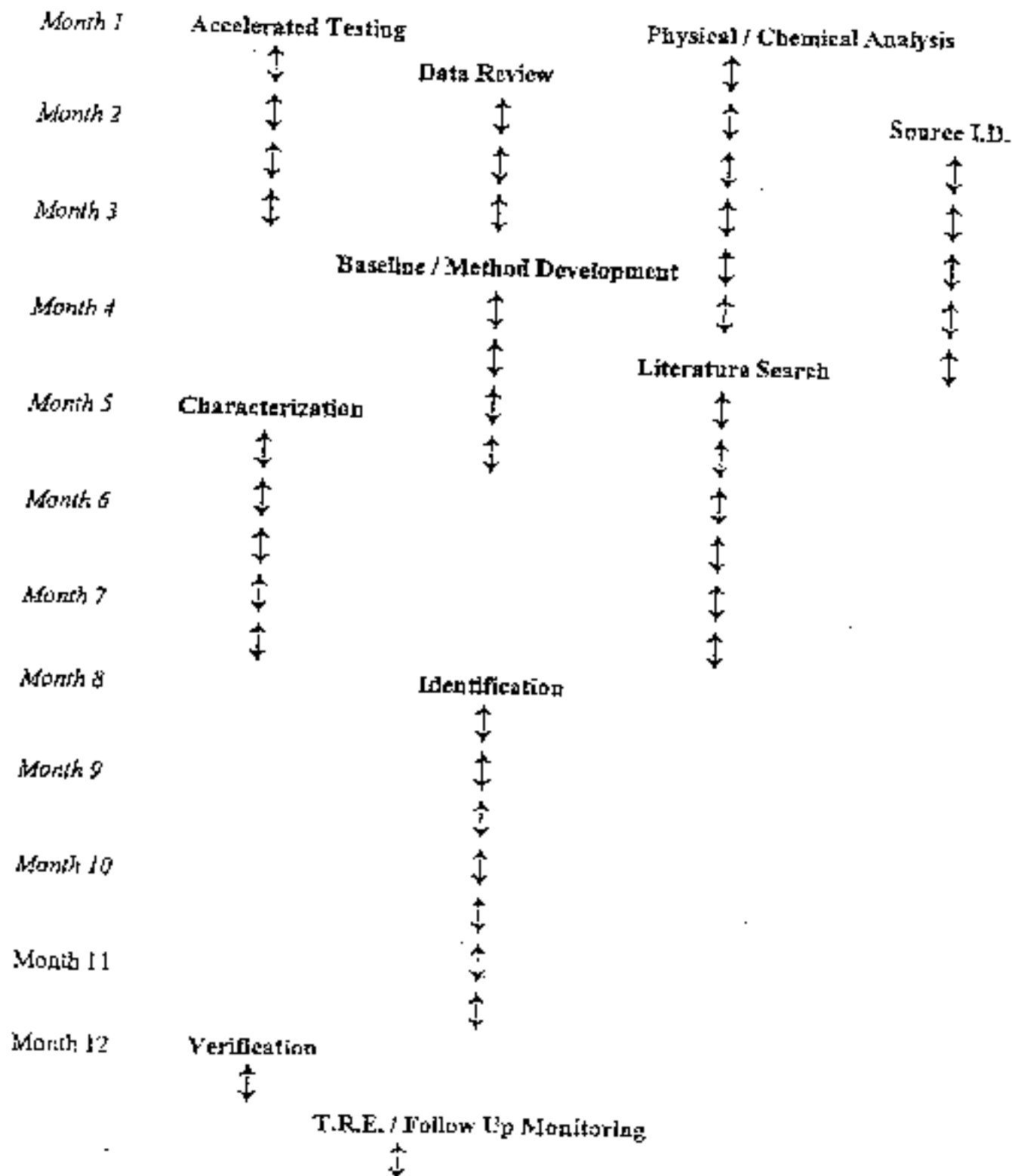


TABLE 1-2 EXAMPLE OF A TIE/TRE SCHEDULE



### **3. PHYSICAL/CHEMICAL ANALYSIS OF SAMPLES**

Throughout the accelerated test period influent and effluent samples will be archived so that if toxicity is detected the sample can be examined chemically and physically to aid in the identification of the source of the toxicity. Initial TTF manipulations of the sample will determine the filterability, degradability, volatility, and solubility of the toxicant.

### **4. DATA REVIEW**

The following sources of information will be investigated to aid in the determination of any possible sources of effluent toxicity:

- 1) The accelerated testing will determine if the toxicity is persistent. Bioassays conducted on other test species and the results from testing on these other species will be examined to determine if the toxicity is species dependent. In addition, data from previous bioassay reports will be reviewed to identify trends in the toxicity of the effluent.
- 2) Chemistry data will be reviewed and compared to bioassay results for the current month as well as for the previous year.
- 3) Precipitation, plant effluent flow, influent flow, time, day, weather and season will be investigated for any correlation with the observed toxicity patterns or events.
- 4) Activity and treatment processes will be examined for events that may correlate with any observed effluent toxicity. Construction activities, equipment failure, maintenance and cleaning schedules may all influence effluent quality. Plant chemical usage will be evaluated.

### **5. SOURCE IDENTIFICATION**

The effluent toxicity may be traced to a source by sampling at various locations within the facility. Concurrent influent and effluent testing will determine if the observed effluent toxicity is increased within the plant. Comparisons of the toxicity before and after processes will further track the toxicity source.

## **6. TIE METHOD SELECTION**

TIE procedures outlined in *Marine Toxicity Identification Evaluation (TIE), Phase I Guidance Document, EPA/600/R-96/054, September 1996*, will be followed. The TIE procedures require physical and chemical effluent manipulations which may selectively reduce or remove the toxicity of individual constituents or classes of constituents. The various chemicals and reagents used in the TIE procedures may themselves cause toxicity in higher concentrations, depending on the test species. A preliminary evaluation of the test organism's sensitivity to these manipulations may be required.

## **7. LITERATURE SEARCH**

A literature search for all available aquatic toxicity data on effluent constituents will help determine which toxicants to target.

## **8. TOXICITY IDENTIFICATION**

The target toxicants of the investigation will be revised throughout the TIE as more information and test results become available. Some toxicants may be targeted because they are relatively easy to eliminate. TIE protocols are often a process of elimination of toxicant sources.

Testing will continue until the likely toxicants are identified. It is not necessary to find all of the potential toxicants in the effluent but only those that have prevented the effluent from easily meeting the NPDES permit limits. Identifying toxicants that can be easily removed or controlled will facilitate the TIE.

During the TIE investigation period, standard test protocol requirements are not always required due to the fact that the data obtained are informative and not definitive. For example, replicates, sample concentrations, test volumes and test periods may be adjusted to expedite testing. When causing or contributing to any observed toxicity, controls (dilution water not manipulated), spikes (constituent removed from sample then added back in), and blanks (dilution water manipulated) will be used when appropriate. The toxicant targets and TIE test methods will be revised as necessary throughout the identification period.

## **9. VERIFICATION**

Tentative identifications of effluent toxicity source(s) will be confirmed by tests following protocol guidelines. The verification will use the original test species that exceeded the NPDES permit limit with all controls and replicates for the full test period. This verification testing consists of an unmanipulated effluent sample exhibiting toxicity tested concurrently with a manipulated sample that meets the NPDES permit limit. The toxicity observed in the effluent sample does not need to be eliminated completely, but the manipulations must significantly reduce toxicity to allow the effluent to achieve permit compliance. Verification of the toxicant(s) will require at least two sets of tests indicating the toxicity reduction.

## **10. TRE/FOLLOW UP MONITORING**

If the identified source of toxicity is not environmentally detrimental then, after consultation, a TRE may not be required.

If a TRE is required, the constituent(s) identified as the source of effluent toxicity will be investigated to identify methods that may remove or reduce it at the source. If this is not possible, additional treatment procedures may be necessary to remove or reduce the toxicity. The appropriate administration, engineers, operators, and chemists will be involved in investigating, selecting, and designing the best methods for toxicity reduction.

The toxicity will be monitored to confirm the reduction of toxicity to ensure that the toxicant was adequately removed. The regular monitoring and reporting schedule as specified in the NPDES permit will resume after completion of the TIT/TRE.

## 11. REFERENCES

*Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations (TREs)*,  
EPA 600/2-88/070, April 1989.

*Marine Toxicity Identification Evaluation (TIE), Phase I Guidance Document*, EPA/600/R-  
96/054, September 1996.

***Section 9.0***  
***Regional Water Quality Control Board Correspondence***

## EL SEGUNDO POWER II LLC

750 B STREET SUITE 2740  
SAN DIEGO, CA 92101  
(619) 615-6727  
FAX (619) 615-7663

December 13, 2000

Ms. Deborah J. Smith  
Assistant Executive Officer  
California Regional Water Quality Control Board  
Los Angeles Region  
320 W. 4<sup>th</sup> Street, Suite 200  
Los Angeles, California 90013

RE: Request for Determination of Existing Discharge under the California Thermal Plan

Dear Ms. Smith:

In our meeting on October 26, we presented an overview of the El Segundo Power Redevelopment Project (ESPR Project) to you and members of your staff. In this presentation, we described the proposed replacement of the existing generating units and the continued unmodified use of the once-through seawater cooling system. In addition, we expressed our interest in maintaining the "existing" classification of the thermal discharge for the ESPR Project under the Water Quality Control Plan for Control of Temperature in the Coastal and Interstate Waters and Enclosed Bays and Estuaries of California (California Thermal Plan).

At the conclusion of this meeting, you requested a letter describing the ESPR Project and why the Project qualifies as an "existing" discharge under the California Thermal Plan and requesting such a determination by the Los Angeles Regional Water Quality Control Board (Regional Board). This letter responds to that request.

### Summary

We believe that the continued classification of the once-through cooling water discharges from the ESPR Project as an "existing" discharge under the California Thermal Plan is justified based on the following considerations:

- The proposed modifications to the generating units will not affect the maximum temperature or volume of the thermal discharge.
- The ESPR Project does not constitute a "material change" as defined in Cal. Code Regs., Title 23, §2210.

increase in the amount of power that can be generated with the same amount of once-through cooling water. This tremendous increase in the efficiency of use of water resources reflects a fundamental benefit of the ESPR Project.

### Thermal Plan Requirements

The California Thermal Plan is a state policy document regulating the discharge of thermal wastes to receiving waters and was developed by the State Water Resources Control Board (State Board). The definitions of "existing" and "new" discharges are key to the application of the Thermal Plan.

Paul Lilibo (916/657-1031) is the lead State Board staff responsible for the administration of the Thermal Plan. The general guidance provided by Mr. Lilibo is that Regional Boards have considerable discretion in the interpretation and administration of the California Thermal Plan. This includes the classification of the once-through cooling water discharge from the ESPR Project as "new" or "existing". The definitions as provided in the California Thermal Plan are:

*Existing Discharge – Any discharge (a) which is presently taking place, or (b) for which waste discharge requirements have been established and construction commenced prior to the adoption of the Thermal Plan, or (c) any material change in an existing discharge for which construction has commenced prior to the adoption of the Thermal Plan (1975). Commencement of construction shall include execution of a contract for onsite construction or for major equipment which is related to the condenser cooling system.*

*New Discharge – Any discharge (a) which is not presently taking place unless waste discharge requirements have been established prior to adoption of the Thermal Plan or (b) which is presently taking place and for which a material change is proposed but no construction was initiated prior to adoption of the Thermal Plan.*

Thus, the determination of the classification of the once-through cooling water discharge as "new" or "existing" will be based on whether the ESPR Project constitutes a "material change" to the discharge. Whether or not a project constitutes a material change or not is primarily determined by the Regional Water Quality Control Board. As we discuss below, we believe that there will not be a "material change," as the ESPR Project will maintain and utilize the once-through cooling water discharge as currently permitted.

new process or product and will not change the character of the waste. Cooling water will continue to be discharged.

- (b) *A significant change in the disposal method (e.g., change from land disposal to a direct discharge to water), or a change in the method of treatment which would significantly alter the character of the waste.* The disposal method will remain the same – cooling discharge through Outfall No. 001 to Santa Monica Bay. There is no “treatment” of the thermal discharge.
- (c) *A significant change in the disposal area, e.g., moving the discharge to another drainage area, to a different water body, or to a disposal area significantly removed from the original area potentially causing different water quality or nuisance problems.* Again, the disposal area will remain the same as it has since 1955 – Outfall No. 001 to Santa Monica Bay.
- (d) *An increase in flow beyond that specified in the waste discharge requirements.* The proposed flow will remain the same – the facility is designed to operate within the existing flow and the same pumps will continue to be utilized. Thus, this criterion does not apply to the ESPR Project.
- (e) *An increase in area or depth to be used for solid waste disposal beyond that specified in the waste discharge requirements.* This does not apply to the ESPR Project.

The Proposed Modifications to the Generating Units will not Affect Volume or Thermal Loading of the Thermal Discharge

As noted in the description of the project presented above, the ESPR Project will continue the use of the existing once-through seawater cooling system utilizing the same intake and outfall structures and the circulating pumps that have been utilized by Units 1 and 2 of ESGS since 1955. Therefore, under peak operating conditions during the summer months, once-through cooling water needs will not exceed the existing maximum volume of 144,000 gallons per minute or 207 gpd. Moreover, the ESPR Project is designed to limit the temperature difference across the intake and outfall to 20°F and to decrease the maximum thermal loading from 46,448 MMBtu/day to 33,298 MMBtu/day. This will ensure that the thermal discharge characteristics will remain the same.

The Existing Discharge Does Not Impact the Beneficial Uses of Santa Monica Bay

for keeping the consumptive use of fresh water to a minimum. The first of the principles of the Policy describes this preference:

*It is the Board's position that from a water quantity and quality standpoint the source of powerplant cooling water should come from the following sources in this order of priority depending on site specifics such as environmental, technical and economic feasibility consideration: (1) wastewater being discharged to the ocean, (2) ocean, (3) brackish water from natural sources or irrigation return flow, (4) inland wastewaters of low TDS, and (5) other inland waters.*

Statement three of the Basis of Policy justifies this preference as follows:

*Although many of the impacts of coastal powerplants on the marine environment are still not well understood, it appears the coastal marine environment is less susceptible than inland waters to the water quality impacts associated with powerplant cooling. Operation of existing coastal powerplants indicate that these facilities either meet the standards of the State's Thermal Plan and Ocean Plan or could do so readily with appropriate technological modifications. Furthermore, coastal locations provide for application of a wide range of cooling technologies which do not require the consumptive use of inland waters and therefore would not place an additional burden on the State's limited supply of inland waters. These technologies include once-through cooling which is appropriate for most coastal sites, potential use of saltwater cooling towers, or use of brackish water where more stringent controls are required for environmental considerations at specific sites.*

Ms. Deborah J. Smith  
Los Angeles Regional Water Quality Control Board  
December 13, 2000  
Page 9

efficiency in the use of water resources at ESGS for the generation of electricity in a timely manner.

Conclusion

Thank you for the opportunity to present this justification regarding the appropriate classification of the continued thermal discharge from the ESPR Project under the California Thermal Plan. We look forward to receiving your determination as to the appropriate classification of the thermal discharge. If you have any questions regarding this request, please contact me at (619) 615-6727 or Tim Hemig at (619) 615-6731.

Sincerely,

A handwritten signature in black ink, appearing to read "David Lloyd", with a long horizontal flourish extending to the right.

David Lloyd  
Secretary



Steven H. Flicker  
Secretary for  
Regional Activities

# California Regional Water Quality Control Board

## Los Angeles Region

(50 Years Serving Coastal Los Angeles and Ventura Counties)

320 W. 4th Street, Suite 200, Los Angeles, California 90013  
Phone (213) 576-5600 FAX (213) 576-5946  
Internet Address: <http://www.swrcb.ca.gov/wrcb4>



Gray Davis  
Governor

May 14, 2001

Mr. David Lloyd, Secretary  
El Segundo Power II LLC  
750 B Street Suite 2740  
San Diego, CA 92101

Dear Mr. Lloyd:

### **DETERMINATION OF CLASSIFICATION OF DISCHARGE FROM THE EL SEGUNDO POWER REDEVELOPMENT PROJECT AT EL SEGUNDO GENERATING STATION (NPDES NO. CA0001147, CI NO. 4657)**

We have reviewed your letter submitted previously requesting determination of classification (*Existing or New*) of the discharge from the El Segundo Power Redevelopment (ESPR) project at the El Segundo Generating Station (ESGS).

The ESPR project will involve the complete removal of Units 1 and 2 rated at 350 megawatt (MW) from the ESGS. Units 1 and 2 will be replaced with three units (Units 6, 5, and 7) a new combined cycle power plant rated capacity of 530 MW. The other two existing units (Units 3 and 4) located adjacent to Units 1 and 2 will not be modified by this project. The three new Units will continue the use of seawater for once-through cooling system utilizing the same intake and outfall structures that have been used by Units 1 and 2 and at the same flow rate of 207 million gallons per day (mgd).

Based on the definitions of *'Existing'* or *'New'* discharge in the Water Quality Control Plan for Control of Temperature in the Coastal and Interstate Waters and Enclosed Bays and Estuaries of California (Thermal Plan), the California Code of Regulations, Title 23, §2212 (definition for *'material change'*), and the information provided by El Segundo Power II LLC, it does appear that the ESPR project is properly classified as an *'existing'* discharge for purposes of the Thermal Plan. As you noted in your letter existing dischargers are required to comply with limits necessary to assure protection beneficial uses and Areas of Special Biological Significance (ASBS).

This determination is limited to the issue presented in your letter of December 13, 2000. That is, it only addresses the request for determination under the Thermal Plan. It is not intended to address other potential issues (e.g., new source issues) that might be raised as a result of the project.

### *California Environmental Protection Agency*

\*\*\*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption\*\*\*

\*\*\*For a list of simple ways to reduce demand and cut your energy costs, see the tips at: <http://www.swrcb.ca.gov/energychallenge.html>\*\*\*

Mr. David Lloyd Secretary  
El Segundo Power II LLC

2

May 14, 2001

Should you have any questions, please contact David Hung at (213) 576-6664 or Rosario Aston at (213) 576-6853

Sincerely,



Dennis A. Dickerson  
Executive Officer

Enclosure

cc. Robyn Stuber, U.S. Environmental Protection Agency Region IX, Permit Section (WTR-5)  
U.S. Army Corps of Engineer  
U.S. Fish and Wildlife Services, Division of Ecological Services  
NOAA, National Marine Fisheries Service  
Jorge Leon, Office of Chief Counsel, State Water Resources Control Board (SWRCB)  
Jim Kassel, Division of Water Quality, SWRCB  
California Department of Fish and Game Marine Resources, Region 5  
California Coastal Commission, South Coast District  
James W. Reece, Jr. California Energy Commission  
Los Angeles County, Department of Public Works Waste Management Division  
Jack Petralia, Department of Health Services, Los Angeles County  
Los Angeles County, Lifeguard Association  
City of Los Angeles, Bureau of Engineering, Wastewater System Engineering Division  
City of Los Angeles, Bureau of Sanitation Industrial Waste Management  
Gerald A. Gewe, Department of Water and Power City of Los Angeles  
City of El Segundo, Department of Public Works  
City of Carson, Department of Public Works  
City of Hermosa Beach, Department of Public Works  
City of Manhattan Beach, Department of Public Works  
City of Palos Verdes Estate, Department of Public Works  
City of Rancho Palos Verdes, Department of Public Works  
City of Redondo Beach, Department of Public Works  
City of Rolling Hills, Department of Public Works  
City of Rolling Hills Estate, Department of Public Works  
City of Torrance, Department of Public Works

David Beckman, Natural Resources Defense Council

*California Environmental Protection Agency*

\*\*\*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption\*\*\*

\*\*\*For a list of simple ways to reduce demand and cut your energy costs, see the tips at <http://www.calweb.ca.gov/energy/hubpage.html>\*\*\*

Mr. David Lloyd, Secretary  
E. Segundo Power II LLC

3

May 14, 2001

Mark Gold, Heal the Bay  
Terry Tamminen, Environment Now  
Steve Fleischli, Santa Monica BayKeeper  
Southern California Coastal Water Research Project  
Audun Aaberg, El Segundo Power, LLC, 301 Vista Del Mar, El Segundo, CA 90245  
Robert Collacott, URS Corporation, 2020 East First Street, Suite 400,  
Santa Ana, CA 92705

*California Environmental Protection Agency*

\*\*\*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption\*\*\*  
\*\*\*For a list of simple ways to reduce demand and cut your energy costs, see the tips at: <http://www.sce.ca.gov/energychallenge.html>\*\*\*



Gustaf H. Hickox  
Secretary for  
Environmental  
Protection

# California Regional Water Quality Control Board Los Angeles Region

Over 50 Years Serving Coastal Los Angeles and Ventura Counties  
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120 W. 4th Street, Suite 200, Los Angeles, California 90013  
Phone: (213) 576-6600 FAX: (213) 576-6640 Internet Address: <http://www.sarch.ca.gov/rwqcb4>



Gray Davis  
Governor

May 16, 2002

Mr. Audun Aaberg  
Regional Plant Manager  
El Segundo Power, LLC  
301 Vista Del Mar  
El Segundo, CA 90245

Dear Mr. Aaberg:

## SEAWATER DESALINATION PILOT PLANT OPERATION – EL SEGUNDO GENERATING STATION (NPDES PERMIT NO. CA0001147, CI 4667)

Thank you for your letter dated May 9, 2002, informing the Los Angeles Regional Water Quality Control Board (Regional Board) about your plans to locate and operate a pilot plant seawater desalination facility (Pilot Plant) at your facility at 301 Vista Del Mar, El Segundo, California.

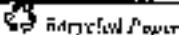
El Segundo Power, LLC (El Segundo) discharges wastewaters from El Segundo Generating Station (Power Plant) under waste discharge requirements contained in Order No. 00-084 adopted by the Regional Board on June 29, 2000. El Segundo operates the Power Plant consisting of 4 steam electric generating units with a design capacity of 1,020 megawatts, located at 301 Vista Del Mar, El Segundo, California. The Power Plant discharges up to 607 million gallons per day (mgd) of wastes consisting of once-through cooling waters, treated metal cleaning wastes, storm water, non-chemical metal cleaning wastes, low volume implant wastes, and treated sanitary wastes into the Pacific Ocean (Santa Monica Bay), a water of the United States.

The Power Plant is designed to use 607 mgd of ocean water for cooling the steam generating units. The cooling water intake structure consists of two conduits (conduit 1 with a capacity of 207 mgd; and conduit 2 with a capacity of 398 mgd capacity) each providing cooling water for two generating units. The intake conduits extend approximately 2,600 feet offshore, drawing water from a depth of 20 feet Mean Lower Low Water.

We understand that the Pilot Plant will be operated by West Basin Municipal Water District (West Basin) and that the operation of the Pilot Plant is scheduled to begin in May 2002 and continue through January 2005. For the operation of the Pilot Plant, West Basin will take 30 gallons per minute (gpm) of seawater from intake conduit 1 that has a design capacity of 143,750 gpm (207 mgd). The flow during pilot studies will constitute 0.02% of the total intake flow of the cooling water. The Pilot Plant process consists of passing the seawater through microfiltration and reverse osmosis units. In the Pilot Plant, the sea water will be separated into two components: pure water and waste brine. Each of the separated streams constitute 50 % of the intake flow (15 gpm of pure water and 15 gpm of brine). Chemicals such as sodium hypochlorite,

### California Environmental Protection Agency

\*\*\*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption\*\*\*  
\*\*\*For a list of simple ways to reduce demand and cut your energy costs, see the tips at <http://www.snrweb.ca.gov/news/challenge.html>\*\*\*



This letter is on recycled paper.

May 16, 2002

ammonium hypochlorite, chloramine and antiscalant (in the amount of less than 3 pounds per day each) will be added to the influent water to enhance the removal efficiency of dissolved solids during desalination. Brine consists of dissolved solids and trace concentrations of metals. After separation, both streams (pure water and waste brine) will be returned to the same power plant cooling water intake conduit 1. It is anticipated that the total amount of chemicals added will have very little impact to the cooling water flow of 207 mgd.

The Pilot Plant operation does not constitute a material change for the NPDES permit issued to the Power Plant. Therefore, we will not need to reopen your NPDES permit. Also, a separate NPDES permit is not required for the Pilot Plant operation. The same constituents that are present in the intake cooling water conduit 1 are discharged back to the conduit, with no net change in contaminant concentration. The amount of chemicals added are very small and will have no adverse impact on the receiving water.

Please submit waste brine monitoring reports on a quarterly basis (by the fifteenth of the month following the end of quarter; i.e. 2<sup>nd</sup> quarter report will be submitted on or before July 15) to Regional Board, Attention: Dr. Tony Rizk.

We thank you for your consent to cooperate in this valuable demonstration study project. The collected data from the Pilot Plant study will help in designing and building a full scale desalination plant which will help alleviate the water shortages in Southern California.

If you have any questions or need further assistance, please call Ms. Blythe Ponak-Bacharowski, Acting Section Chief, Watershed Regulatory Section at (213) 576-6720.

Sincerely,



Dennis A. Dickerson  
Executive Officer

cc: Mr. Michael Lauffer, Office of Chief Counsel, State Water Resources Control Board  
Mr. Paul E. Shoenberger, West Basin Municipal Water District

**California Environmental Protection Agency**

\*\*\*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption\*\*\*  
\*\*\*For a list of simple ways to reduce demand and get your energy costs, see the tips at <http://www.water.ca.gov/energychallenge.htm>\*\*\*

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Our mission is to preserve and enhance the quality of California's water resources for the benefit of present and future generations.

El Segundo Power, LLC  
301 Vista Del Mar  
El Segundo, CA 90245

Phone: 310.615.6342  
Fax: 310.615.6060

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May 9, 2002

Mr. Dennis A. Dickerson, Executive Officer  
California Regional Water Quality Board  
Los Angeles Region - Technical Support Unit  
320 W.4<sup>th</sup> St., Suite 200  
Los Angeles, CA 90013

Dear Mr. Dickerson:

### **SEAWATER DEMONSTRATION PLANT OPERATION**

El Segundo Power, LLC (El Segundo) and West Basin Municipal Water District (West Basin) have signed a Memorandum of Understanding that allows West Basin to co-locate a pilot plant seawater desalination facility at our site located at 301 Vista Del Mar Drive in El Segundo, CA. West Basin intends to conduct various research studies to increase the knowledge and understanding of the operation, water quality, discharge and production of seawater desalination facilities. The source and discharge of the seawater will be derived from El Segundo's existing inlet and outlet facilities. The demonstration plant will operate at a flowrate of approximately 30 gallons per minute or a 1 to 5,000 blend with the existing facilities uses (>200 mgd).

West Basin has advised us that there will be no material change or affect to our existing NPDES permit and El Segundo believes the data presented to us supports that finding. Therefore, by transmittal of this letter, we respectfully request written concurrence from the RWQCB that no changes to our existing NPDES permit would be required from the operation of the demonstration plant. A prompt answer would be appreciated to keep the project on schedule.

El Segundo also understands that West Basin will be transmitting additional water quality, including effluent characteristics, and other information that provide further details of this project. Enclosed with this letter is the information on the seawater desalination pilot plant prepared by West Basin.

If you have any questions, please do not hesitate to call me at 310.615.6342.

Sincerely,  
El Segundo Power, LLC  
By: NRG El Segundo Operations Inc.  
It's Authorized Agent



By: Audon Aaberg  
Regional Plants Manager



**West Basin Municipal Water District**

17140 S. Avalon Blvd • Suite 210 • Carson, CA 90746-1296

telephone 310-217-2411 • fax 310 217-2414

April 30, 2002

Mr. Audun Aaberg, Regional Plants Manager  
El Segundo Power LLC  
301 Vista del Mar  
El Segundo, CA 90245

Dear Mr. Aaberg:

**WEST BASIN MUNICIPAL WATER DISTRICT'S REQUEST  
TO OPERATE A PILOT SCALE SEAWATER DESALINATION PLANT**

As you know, a Memorandum of Understanding (MOU) between El Segundo Power LLC and the West Basin Municipal Water District (West Basin) was finalized in the Fall, 2001. Part of the MOU agreement is that West Basin would be temporarily operating a pilot scale seawater desalination plant (capacity of about 20 to 30 gpm or 43,200 gallons per day) within the power plant's property boundary. The operational period for the pilot plant is scheduled to begin in mid-May 2002 and continue through the January 2005. At this time, our plans are to take seawater from your pre-condensor intake manifold and have the seawater pass through the pilot plant's treatment process of microfiltration & reverse osmosis and discharge (brine & reverse osmosis permeate) back into the power plant's outlet manifold. We are enclosing a draft of our submittal to the Regional Water Quality Control Board for your review. The following information comprises our draft submittal:

- West Basin cover letter
- Draft El Segundo Power letter
- flow schematic;
- one-page summary sheet outlining our pilot plant's operations;
- power plant - water quality information from the plant's intake manifold; and
- general information on the need for seawater desalination

West Basin does not anticipate any material changes to your outfall from the pilot plant's operations since the seawater intake for the pilot plant will be essentially the same as that of the pilot plant's outlet. The flow ratio between the power plant operations and the seawater desalination plant will be less than 0.02% or a 1 to 5,000 blend ratio (43,200 to 200,000,000 gallons per day). West Basin has

Darryl G. Miller, *General Manager*

Mr. Aurdun Aaberg, Regional Plants Manager  
El Segundo Power LCC  
April 30, 2002  
Page 2


consulted with Los Angeles Region - California Regional Water Quality Board (RWQCB) staff and informed them of our tentative plans for the seawater desalination pilot plant.

For your consideration, enclosed is a draft sample letter that we respectfully request be transmitted to the RWQCB. It would be greatly appreciated if the attached sample letter could be transmitted to the RWQCB by May 3, 2002. We have a standing offer to provide courier or other services or to expedite delivering the correspondence. Also, upon your concurrence, we intend to transmit all of the attached water quality and other related information to the RWQCB.

In closing, since West Basin will be temporarily using the power plant's outfall during the seawater pilot plant's operational period, which needs to comply with NPDES requirements. West Basin requests that you consult with RWQCB and notify them that even though West Basin will be operating a pilot scale seawater desalination plant "no material change" will occur to the power plant's outfall. West Basin will gladly provide both your company and RWQCB with water quality information from the pilot plant's operation on a quarterly basis.

If you have any questions, please contact me at (310) 660-6218.

Sincerely,



Paul E. Shoenberger  
Chief of Engineering & Operations

LMC:ss: F:\users\sharad\work\681wba29

## **WEST BASIN MWD SEAWATER DESALINATION PROGRAM PILOT PLANT**

- **PILOT FACILITIES TREATMENT – (20 - 30 GPM)**

- Microfiltration/Reverse Osmosis
- Discharge flows to the ocean using the El Segundo Power Plant outfall
- Anticipated flows: 20 – 30 gpm (43,200 gallons/day) to be combined with El Segundo Power Plant Flows of (200,000,000 gallons/day)
- Pilot Plant ~ 0.02% of total power plant flows
- Operational Period: May, 2002 – June, 2005(?)

- **ANTICIPATED WATER QUALITY**

- Same as ocean intake and outfall
- Chloramine (3 – 5 mg/L)

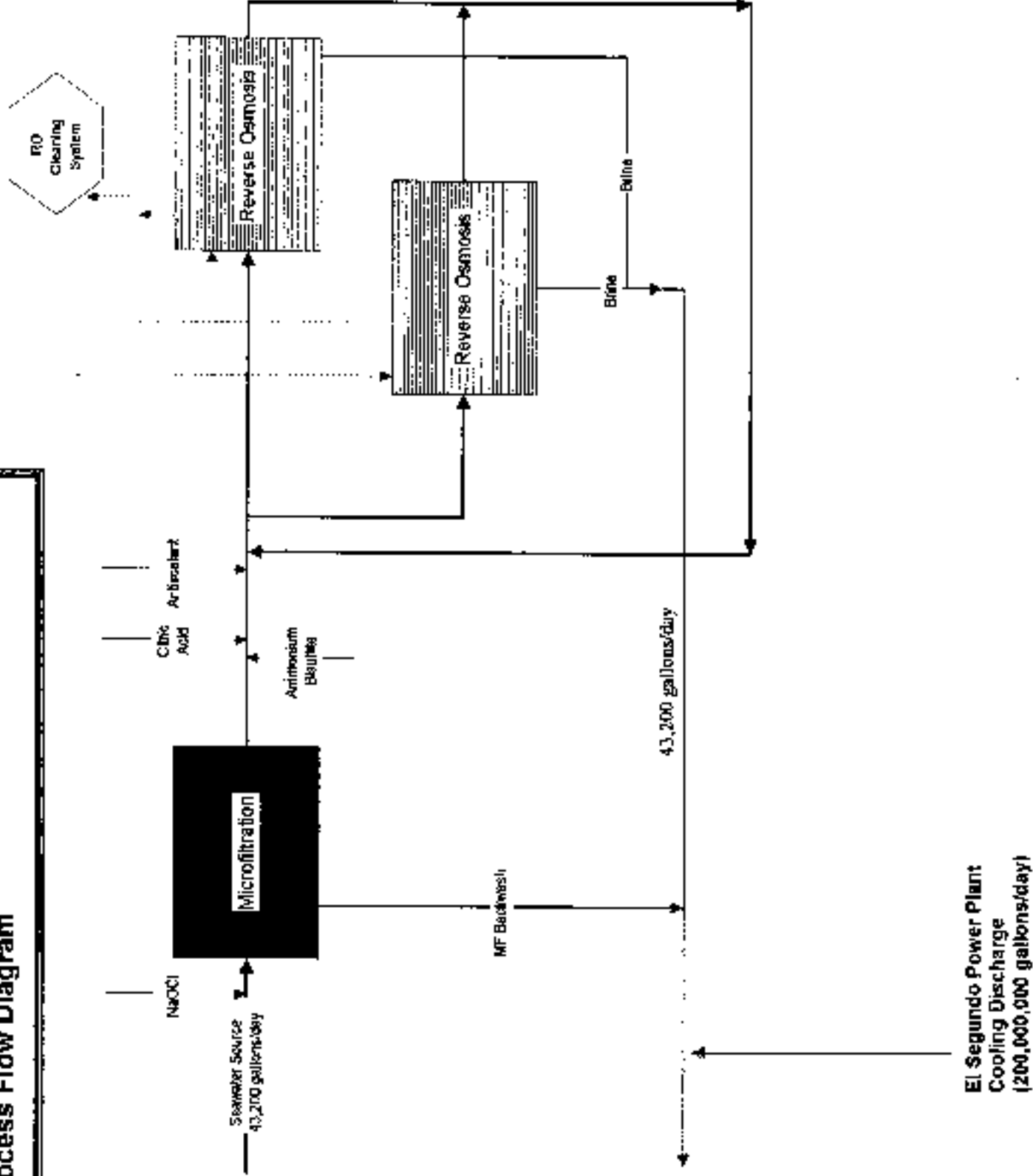
- **OPERATION AND MAINTENANCE**

- Regular Operation of Reverse Osmosis – Chemical Addition (*Approve NSF for Drinking Water Purposes – less than 3 lbs./day*)
  - Sodium Hypochlorite (3 – 8 mg/L)
  - Ammonium Hypochlorite (1 -2 mg/L)
  - Antiscalant (3 mg/L)
- Cleaning with chemicals – once ever 3 weeks Addition (*Approve NSF for Drinking Water Purposes – less than 3 lbs./day*)
  - Microfiltration 100 gallons
    - Citric Acid (2%)
    - Sodium Hypochlorite (550 ppm)
  - Reverse Osmosis – 100 gallons
    - Citric Acid (2%)
    - Sodium Hypochlorite (500 ppm)
    - Phosphate Solution (2%)

- **RWQCB RECOMMENDATION**

- No Permit Needed for Temporary Project
  - No material change to receiving water
  - Temporary discharge period
  - Pilot plant flow only 43,200 gal/day vs. 200 mgd from power plant

# Seawater Desalination Pilot Plant (43,200 gallons/day) Process Flow Diagram





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Report Date: Friday, April 05, 2002

Received Date: Wednesday, March 27, 2002

Log By: nr

Log Time: 14:01

Client: West Basin Municipal Water District  
17140 South Avalon Blvd., Suite 210  
Carson, CA 90746-1218

Phone: (310) 660-6245

FAX: (310) 217-2414

Attn.: Cheryl A. Ross

Project: West Basin Water Rec. Plant

P.O. #: Agreement B1187

Turnaround Time: Normal

### CERTIFICATE OF ANALYSIS

Lab#: A202162-004

Sample ID: Influent

Matrix: Sea Water

Sampled By: E. Abegunde/T. Tran

Date: 3/27/2002

Time: 10:10

Source: R & D

| Parameter                        | Result  | Flag | Units | Dilution Factor | RL   | Method       | Analyzed     | Worksheet # |
|----------------------------------|---------|------|-------|-----------------|------|--------------|--------------|-------------|
| <b>Prep. EPA1613B</b>            |         |      |       |                 |      |              |              |             |
| 2,3,7,8-TCDF (Dioxin)            | Pending |      | pg/L  | 1               |      | EPA1613B     |              |             |
| 1,2,3,7,8-PeCDF                  | Pending |      | pg/L  | 1               |      | EPA1613B     |              |             |
| 1,2,3,4,7,8-HxCDF                | Pending |      | pg/L  | 1               |      | EPA1613B     |              |             |
| 1,2,3,6,7,8-HxCDF                | Pending |      | pg/L  | 1               |      | EPA1613B     |              |             |
| 1,2,3,7,8,9-HxCDF                | Pending |      | pg/L  | 1               |      | EPA1613B     |              |             |
| 1,2,3,4,6,7,8-HpCDF              | Pending |      | pg/L  | 1               |      | EPA1613B     |              |             |
| OCDF                             | Pending |      | pg/L  | 1               |      | EPA1613B     |              |             |
| 2,3,7,8-TCDF                     | Pending |      | pg/L  | 1               |      | EPA1613B     |              |             |
| 1,2,3,7,8-PeCDF                  | Pending |      | pg/L  | 1               |      | EPA1613B     |              |             |
| 2,3,4,6,7,8-PeCDF                | Pending |      | pg/L  | 1               |      | EPA1613B     |              |             |
| 1,2,3,4,7,8-HxCDF                | Pending |      | pg/L  | 1               |      | EPA1613B     |              |             |
| 1,2,3,6,7,8-HxCDF                | Pending |      | pg/L  | 1               |      | EPA1613B     |              |             |
| 2,3,4,6,7,8-HxCDF                | Pending |      | pg/L  | 1               |      | EPA1613B     |              |             |
| 1,2,3,7,8,9-HxCDF                | Pending |      | pg/L  | 1               |      | EPA1613B     |              |             |
| 1,2,3,4,6,7,8-HpCDF              | Pending |      | pg/L  | 1               |      | EPA1613B     |              |             |
| 1,2,3,4,7,8,9-HpCDF              | Pending |      | pg/L  | 1               |      | EPA1613B     |              |             |
| OCDF                             | Pending |      | pg/L  | 1               |      | EPA1613B     |              |             |
| Chromium, hexavalent (Cr VI)     | ND      |      | mg/L  | 1               | 0.01 | SM 3900Cr D  | 3/27/2002 hn | VYS32814    |
| <b>Prep. SM4500CN</b>            |         |      |       |                 |      |              |              |             |
| Cyanide, total                   | ND      |      | mg/L  | 1               | 0.05 | SM 4500CN E  | 3/28/2002 id | VYS32838    |
| Gross alpha                      | Pending |      | pCi/L | 1               |      | Sub-contract |              |             |
| Gross alpha counting error (+/-) | Pending |      | pCi/L | 1               |      | Sub-contract |              |             |
| Gross beta                       | Pending |      |       | 1               |      | Sub-contract |              |             |
| Gross beta counting error (+/-)  | Pending |      |       | 1               |      | Sub-contract |              |             |
| <b>Prep. EPA 200.2</b>           |         |      |       |                 |      |              |              |             |
| Aluminum                         | ND      |      | ug/L  | 1               | 10.0 | EPA 200.2    | 3/28/2002 al | VYS32878    |
| Antimony                         | ND      |      | ug/L  | 1               | 5.0  | EPA 200.2    | 3/28/2002 al | VYS32878    |
| Barium                           | SL      |      | ug/L  | 1               | 0.50 | EPA 200.2    | 3/28/2002 al | VYS32876    |
| Beryllium                        | ND      |      | ug/L  | 1               | 0.30 | EPA 200.2    | 3/28/2002 al | VYS32878    |

Lab#: A202162

Page 1 of 4



Client: West Basin Municipal Water District  
Project Name: West Basin Water Rec. Plant

Report Date: Friday, April 05, 2002

## CERTIFICATE OF ANALYSIS

Lab#: A202162-004 Sample ID: Influent Matrix: Sea Water  
Sampled By: T. Abagundey, Tran Date: 3/27/2002 Time: 10:10 Source: R & D

| Parameter                            | Result | Flag | Units | Dilution Factor | RL   | Method    | Analyzed  | Worksheet #  |
|--------------------------------------|--------|------|-------|-----------------|------|-----------|-----------|--------------|
| Cadmium                              | ND     |      | ug/L  | 1               | 0.50 | EPA 200.8 | 3/28/2002 | at WS32878   |
| Copper                               | 4.0    |      | ug/L  | 1               | 2.0  | EPA 200.8 | 3/28/2002 | at WS32878   |
| Lead                                 | ND     |      | ug/L  | 1               | 1.0  | EPA 200.8 | 3/28/2002 | at WS32878   |
| Manganese                            | 1.7    |      | ug/L  | 1               | 1.0  | EPA 200.8 | 3/28/2002 | at WS32878   |
| Nickel                               | ND     |      | ug/L  | 1               | 2.5  | EPA 200.8 | 3/28/2002 | at WS32878   |
| Thallium                             | ND     |      | ug/L  | 1               | 0.50 | EPA 200.8 | 3/28/2002 | at WS32878   |
| Zinc                                 | 17     |      | ug/L  | 1               | 10.0 | EPA 200.8 | 3/28/2002 | at WS32878   |
| <i>Prep. EPA 200.2</i>               |        |      |       |                 |      |           |           |              |
| Boron                                | 4400   |      | ug/L  | 1               | 10   | EPA 200.7 | 3/28/2002 | na WS32810   |
| Iron                                 | ND     |      | ug/L  | 1               | 20   | EPA 200.7 | 3/28/2002 | na WS32810   |
| Arsenic                              | 19     |      | ug/L  | 1               | 10   | EPA 200.7 | 3/28/2002 | na WS32810   |
| Selenium                             | ND     |      | ug/L  | 1               | 10   | EPA 200.7 | 3/28/2002 | na WS32810   |
| Chromium, total                      | NU     |      | ug/L  | 1               | 5    | EPA 200.7 | 3/28/2002 | na WS32810   |
| Mercury                              | ND     |      | ug/L  | 1               | 0.10 | EPA 245.1 | 4/1/2002  | tohu WS32820 |
| Chloromethane                        | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| Vinyl chloride                       | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| Bromomethane                         | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| Chloroethane                         | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| Trichlorofluoromethane (Freon 11)    | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| 1,1-Dichloroethane                   | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| Methylene chloride (Dichloromethane) | ND     |      | ug/L  | 1               | 5.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| trans-1,2-Dichloroethene             | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| 1,1-Dichloroethane                   | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| Chloroform                           | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| 1,1,1-Trichloroethane                | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| Carbon tetrachloride                 | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| Benzene                              | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| 1,2-Dichloroethane                   | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| Trichloroethene                      | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| 1,2-Dichloropropane                  | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| Bromodichloromethane                 | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| 2-Chloroethylvinyl ether             | ND     |      | ug/L  | 1               | 5.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| cis-1,3-Dichloropropane              | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| Toluene                              | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| trans-1,3-Dichloropropane            | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| 1,1,2-Trichloroethane                | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| Tetrachloroethene                    | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| Dibromochloromethane                 | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| Chlorobenzene                        | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| Ethyl benzene                        | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| Bromoform                            | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| 1,1,2,2-Tetrachloroethane            | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| 1,3-Dichlorobenzene                  | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |
| 1,4-Dichlorobenzene                  | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 | AS WS32848   |



Client: West Basin Municipal Water District  
Project Name: West Basin Water Rec. Plant

Report Date: Friday, April 05, 2002

## CERTIFICATE OF ANALYSIS

Lab#: A202162-004 Sample ID: Influent Matrix: Sea Water  
Sampled By: T. Abegunde/T. Tran Date: 3/27/2002 Time: 10:10 Source: R & D

| Parameter                        | Result       | Flag | Units | Dilution Factor | RL   | Method  | Analyzed     | Worksheet # |
|----------------------------------|--------------|------|-------|-----------------|------|---------|--------------|-------------|
| 1,2-Dichlorobenzene              | ND           |      | ug/L  | 1               | 1.0  | EPA 824 | 3/28/2002 AS | WS32848     |
| Acrolein                         | ND           |      | ug/L  | 1               | 10.0 | EPA 824 | 3/28/2002 AS | WS32848     |
| Acrylonitrile                    | ND           |      | ug/L  | 1               | 10.0 | EPA 824 | 3/28/2002 AS | WS32848     |
| Tentatively Identified Compounds | See attached |      | ug/L  | 1               | 1.0  | EPA 824 | 3/28/2002 AS | WS32848     |

| Prop.                               | EPA 825 | Date: 3/27/2002 | By THJL |   |      |         |              |         |
|-------------------------------------|---------|-----------------|---------|---|------|---------|--------------|---------|
| N-Nitroso-dimethylamine             | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| Phenol                              | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| bis(2-Chloroethyl) Ether            | ND      |                 | ug/L    | 1 | 10.0 | EPA 826 | 3/30/2002 bn | WS32797 |
| 2-Chlorophenol                      | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| 1,3-Dichlorobenzene                 | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| 1,4-Dichlorobenzene                 | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| 1,2-Dichlorobenzene                 | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| bis(2-Chloroisopropyl) ether        | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| N-Nitroso-di-n-propylamine          | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| Hexachlorocyclohexane               | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| Nitrobenzene                        | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| isophorone                          | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| 2-Nitrophenol                       | ND      |                 | ug/L    | 1 | 20   | EPA 825 | 3/30/2002 bn | WS32797 |
| 2,4-Dimethylphenol                  | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| bis(2-Chloroethoxy) methane         | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| 2,4-Dichlorophenol                  | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| 1,2,4-Trichlorobenzene              | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| Naphthalene                         | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| Hexachlorobutadiene                 | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| 4-Chloro-3-Methylphenol             | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| Hexachlorocyclopentadiene           | ND      |                 | ug/L    | 1 | 20   | EPA 825 | 3/30/2002 bn | WS32797 |
| 2,4,6-Trichlorophenol               | ND      |                 | ug/L    | 1 | 20   | EPA 825 | 3/30/2002 bn | WS32797 |
| 2-Chloronaphthalene                 | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| Dimethyl phthalate                  | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| 2,6-Dinitrotoluene                  | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| Acenaphthylene                      | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| Acenaphthene                        | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| 2,4-Dinitrophenol                   | ND      |                 | ug/L    | 1 | 40   | EPA 825 | 3/30/2002 bn | WS32797 |
| 4-Nitrophenol                       | ND      |                 | ug/L    | 1 | 20   | EPA 825 | 3/30/2002 bn | WS32797 |
| 2,4-Dinitrotoluene                  | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| Diethyl phthalate                   | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| 4-Chlorophenyl phenyl ether         | ND      |                 | ug/L    | 1 | 10.0 | EPA 828 | 3/30/2002 bn | WS32797 |
| Fluorene                            | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| 4,6-Dinitro-2-methylphenol          | ND      |                 | ug/L    | 1 | 20   | EPA 825 | 3/30/2002 bn | WS32797 |
| N-Nitroso-diphenylamine             | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| 1,2-Diphenylhydrazine as Azobenzene | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| 4-Bromophenyl phenyl ether          | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| Hexachlorobenzene                   | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |
| Pentachlorophenol                   | ND      |                 | ug/L    | 1 | 10.0 | EPA 825 | 3/30/2002 bn | WS32797 |

Lab#: A202162

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Client: West Basin Municipal Water District  
Project Name: West Basin Water Res. Plant

Report Date: Friday, April 05, 2002

## CERTIFICATE OF ANALYSIS

Lab#: A202162-004 Sample ID: Influent Matrix: Sea Water  
Sampled By: T. Abegunde/T. Tran Date: 3/27/2002 Time: 10:10 Source: R & D

| Parameter                        | Result       | Flag | Units | Dilution Factor | RL   | Method  | Analyzed     | Worksheet # |
|----------------------------------|--------------|------|-------|-----------------|------|---------|--------------|-------------|
| Phenanthrene                     | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 bn | VS32797     |
| Anthracene                       | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 bn | VS32797     |
| di-n-Butyl phthalate             | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 bn | VS32797     |
| Fluoranthene                     | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 bn | VS32797     |
| Benzidine                        | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 bn | VS32797     |
| Pyrene                           | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 bn | VS32797     |
| Butyl benzyl phthalate           | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 bn | VS32797     |
| 3,3'-dichlorobenzidine           | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 bn | VS32797     |
| bis (2-Ethylhexyl) phthalate     | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 bn | VS32797     |
| Benzo (a) Anthracene             | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 bn | VS32797     |
| Chrysene                         | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 bn | VS32797     |
| di-n-Oct. phthalate              | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 bn | VS32797     |
| Benzo (b) Fluoranthene           | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 bn | VS32797     |
| Benzo (k) Fluoranthene           | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 bn | VS32797     |
| Benzo (a) Pyrene                 | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 bn | VS32797     |
| Indeno (1,2,3-cd) Pyrene         | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 bn | VS32797     |
| Benzo (e,h) Anthracene           | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 bn | VS32797     |
| Benzo (g,h,i) Perylene           | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 bn | VS32797     |
| Tentatively identified Compounds | See attached |      |       | 1               |      | EPA 825 | 3/30/2002 bn | VS32797     |

| Prop.               | EPA 808 | Date: 4/2/2002 | By TH/L |      |   |              |             |         |
|---------------------|---------|----------------|---------|------|---|--------------|-------------|---------|
| Aldrin              | ND      |                |         | ug/L | 1 | 0.10 EPA 808 | 4/4/2002 kh | VS32982 |
| alpha-BHC           | ND      |                |         | ug/L | 1 | 0.10 EPA 808 | 4/4/2002 kh | VS32982 |
| beta-BHC            | ND      |                |         | ug/L | 1 | 0.10 EPA 808 | 4/4/2002 kh | VS32982 |
| delta-BHC           | ND      |                |         | ug/L | 1 | 0.10 EPA 808 | 4/4/2002 kh | VS32982 |
| gamma-BHC (lindane) | ND      |                |         | ug/L | 1 | 0.10 EPA 808 | 4/4/2002 kh | VS32982 |
| 4,4'-DDD            | ND      |                |         | ug/L | 1 | 0.10 EPA 808 | 4/4/2002 kh | VS32982 |
| 4,4'-DDE            | ND      |                |         | ug/L | 1 | 0.10 EPA 808 | 4/4/2002 kh | VS32982 |
| 4,4'-DDT            | ND      |                |         | ug/L | 1 | 0.10 EPA 808 | 4/4/2002 kh | VS32982 |
| Dieldrin            | ND      |                |         | ug/L | 1 | 0.10 EPA 808 | 4/4/2002 kh | VS32982 |
| Endosulfan I        | ND      |                |         | ug/L | 1 | 0.10 EPA 808 | 4/4/2002 kh | VS32982 |
| Endosulfan II       | ND      |                |         | ug/L | 1 | 0.10 EPA 808 | 4/4/2002 kh | VS32982 |
| Endosulfan sulfate  | ND      |                |         | ug/L | 1 | 0.10 EPA 808 | 4/4/2002 kh | VS32982 |
| Endrin              | ND      |                |         | ug/L | 1 | 0.10 EPA 808 | 4/4/2002 kh | VS32982 |
| Endrin aldehyde     | ND      |                |         | ug/L | 1 | 0.10 EPA 808 | 4/4/2002 kh | VS32982 |
| Heptachlor          | ND      |                |         | ug/L | 1 | 0.10 EPA 808 | 4/4/2002 kh | VS32982 |
| Heptachlor epoxide  | ND      |                |         | ug/L | 1 | 0.10 EPA 808 | 4/4/2002 kh | VS32982 |
| Methoxychlor        | ND      |                |         | ug/L | 1 | 0.10 EPA 808 | 4/4/2002 kh | VS32982 |
| Toxaphene           | ND      |                |         | ug/L | 1 | 1.50 EPA 808 | 4/4/2002 kh | VS32982 |
| Chlordane           | ND      |                |         | ug/L | 1 | 0.50 EPA 808 | 4/4/2002 kh | VS32982 |
| Aroclor-1016        | ND      |                |         | ug/L | 1 | 1.00 EPA 808 | 4/4/2002 kh | VS32982 |
| Aroclor-1221        | ND      |                |         | ug/L | 1 | 1.00 EPA 808 | 4/4/2002 kh | VS32982 |
| Aroclor-1232        | ND      |                |         | ug/L | 1 | 1.00 EPA 808 | 4/4/2002 kh | VS32982 |
| Aroclor-1242        | ND      |                |         | ug/L | 1 | 1.00 EPA 808 | 4/4/2002 kh | VS32982 |
| Aroclor-1248        | ND      |                |         | ug/L | 1 | 1.00 EPA 808 | 4/4/2002 kh | VS32982 |

Lab#: A202162

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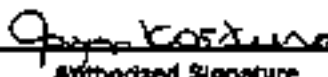
Client: West Basin Municipal Water District  
Project Name: West Basin Water Rec. Plant

Report Date: Friday, April 05, 2002

## CERTIFICATE OF ANALYSIS

Lab#: A202162-004 Sample ID: Influent Matrix: Sea Water  
Sampled By: T. Abegunde/T. Tran Date: 3/27/2002 Time: 10:10 Source: R & D

| Parameter    | Result | Flag | Units | Dilution Factor | RL   | Method  | Analyzed    | Worksheet # |
|--------------|--------|------|-------|-----------------|------|---------|-------------|-------------|
| Aroclor-1254 | ND     |      | ug/L  | 1               | 1.00 | EPA 808 | 4/4/2002 wk | WS32962     |
| Aroclor-1260 | ND     |      | ug/L  | 1               | 1.00 | EPA 808 | 4/4/2002 wk | WS32962     |



Authorized Signature

ELAP # 1132  
LACSD # 10143

## Flags for Data Qualifiers:

- B = Compound detected in the blank. Sample result equal or less than 10 times the concentration in the blank.
- J = Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- H = Estimated value, result over the calibration range
- R = Result is suspect, LCS recovery greater than the upper control limit.
- L = Result is suspect, LCS recovery lower than the control limit.
- Q = QC result out of acceptance limits.
- T = Trace detection, detected but below the reporting limit.

## Notes:

- The Chain of Custody document is part of the analytical report.
- Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
- All results are expressed on wet weight basis unless specified.
- RL = Reporting Limit.
- ND = Not detected, below the reporting limit.
- Sub = Subcontracted analysis, original report enclosed.



# Weck Laboratories, Inc.

Environmental and Analytical Services • Since 1964

Report Date: Friday, April 05, 2002

Received Date: Wednesday, March 27, 2002

Log By: mr

Log Time: 14:12

Client: West Basin Municipal Water District  
17140 South Avalon Blvd., Suite 210  
Carson, CA 90746-1218

Phone: (310) 860-6246

FAX: (310) 217-2414

Attn: Cheryl A. Ross

Project: West Basin Water Rec. Plant

P.O. #: Agreement B1187

Turnaround Time: Normal

## CERTIFICATE OF ANALYSIS

Lab#: A202162-005

Sample ID: Discharge

Matrix: Sea Water

Sampled By: T. Abegunde/T. Tran

Date: 3/27/2002

Time: 9:35

Source: R & D

| Parameter                        | Result  | Flag | Units | Dilution Factor | RL   | Method       | Analyzed  | Worksheet # |         |
|----------------------------------|---------|------|-------|-----------------|------|--------------|-----------|-------------|---------|
| Prep. EPA1613B                   |         |      |       |                 |      |              |           |             |         |
| 2,3,7,8-TCDD (Dioxin)            | Pending |      | pg/L  | 1               |      | EPA1613B     |           |             |         |
| 1,2,3,7,8-PeCDD                  | Pending |      | pg/L  | 1               |      | EPA1613B     |           |             |         |
| 1,2,3,4,7,8-HxCDD                | Pending |      | pg/L  | 1               |      | EPA1613B     |           |             |         |
| 1,2,3,6,7,8-HxCDD                | Pending |      | pg/L  | 1               |      | EPA1613B     |           |             |         |
| 1,2,3,7,8,9-HxCDD                | Pending |      | pg/L  | 1               |      | EPA1613B     |           |             |         |
| 1,2,3,4,6,7,8-HpCDD              | Pending |      | pg/L  | 1               |      | EPA1613B     |           |             |         |
| OCDD                             | Pending |      | pg/L  | 1               |      | EPA1613B     |           |             |         |
| 2,3,7,8-TCDF                     | Pending |      | pg/L  | 1               |      | EPA1613B     |           |             |         |
| 1,2,3,7,8-PeCDF                  | Pending |      | pg/L  | 1               |      | EPA1613B     |           |             |         |
| 2,3,4,6,7,8-PeCDF                | Pending |      | pg/L  | 1               |      | EPA1613B     |           |             |         |
| 1,2,3,4,7,8-HxCDF                | Pending |      | pg/L  | 1               |      | EPA1613B     |           |             |         |
| 1,2,3,6,7,8-HxCDF                | Pending |      | pg/L  | 1               |      | EPA1613B     |           |             |         |
| 2,3,4,6,7,8-HxCDF                | Pending |      | pg/L  | 1               |      | EPA1613B     |           |             |         |
| 1,2,3,7,8,9-HxCDF                | Pending |      | pg/L  | 1               |      | EPA1613B     |           |             |         |
| 1,2,3,4,8,9-HpCDF                | Pending |      | pg/L  | 1               |      | EPA1613B     |           |             |         |
| 1,2,3,4,7,8,9-HpCDF              | Pending |      | pg/L  | 1               |      | EPA1613B     |           |             |         |
| OCDF                             | Pending |      | pg/L  | 1               |      | EPA1613B     |           |             |         |
| Chromium, hexavalent (Cr VI)     | ND      |      | mg/L  | 1               | 0.01 | SM 3500Cr O  | 3/27/2002 | hr          | WS32814 |
| Prep. SM4500CN                   |         |      |       |                 |      |              |           |             |         |
| Cyanide, total                   | ND      |      | mg/L  | 1               | 0.05 | SM 4500CN E  | 3/28/2002 | td          | WS32836 |
| Gross alpha                      | Pending |      | pCi/L | 1               |      | Sub-contract |           |             |         |
| Gross alpha counting error (+/-) | Pending |      | pCi/L | 1               |      | Sub-contract |           |             |         |
| Gross beta                       | Pending |      |       | 1               |      | Sub-contract |           |             |         |
| Gross beta counting error (+/-)  | Pending |      |       | 1               |      | Sub-contract |           |             |         |
| Prep. EPA 200.2                  |         |      |       |                 |      |              |           |             |         |
| Aluminum                         | ND      |      | ug/L  | 1               | 10.0 | EPA 200.8    | 3/28/2002 | at          | WS32876 |
| Antimony                         | ND      |      | ug/L  | 1               | 5.0  | EPA 200.8    | 3/28/2002 | at          | WS32876 |
| Barium                           | 8.5     |      | ug/L  | 1               | 0.50 | EPA 200.8    | 3/28/2002 | at          | WS32876 |
| Beryllium                        | ND      |      | ug/L  | 1               | 0.30 | EPA 200.8    | 3/28/2002 | at          | WS32876 |

Lab#: A202162

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Client: West Basin Municipal Water District  
Project Name: West Basin Water Rec. Plant

Report Date: Friday, April 05, 2002

# **CERTIFICATE OF ANALYSIS**

Lab#: A202162-005      Sample ID: Discharge      Matrix: Sea Water  
Sampled By: T. Abogunda/T. Tran      Date: 3/27/2002      Time: 0:35      Source: R & D

| Parameter                            | Result | Flag | Units | Dilution Factor | RL   | Method    | Analyzed      | Worksheet |
|--------------------------------------|--------|------|-------|-----------------|------|-----------|---------------|-----------|
| Cadmium                              | ND     |      | ug/L  | 1               | 0.50 | EPA 200.8 | 3/28/2002 at  | WS32878   |
| Copper                               | 2.4    |      | ug/L  | 1               | 2.0  | EPA 200.8 | 3/28/2002 at  | WS32878   |
| Lead                                 | ND     |      | ug/L  | 1               | 1.0  | EPA 200.8 | 3/28/2002 at  | WS32878   |
| Manganese                            | 2.0    |      | ug/L  | 1               | 1.0  | EPA 200.8 | 3/28/2002 at  | WS32878   |
| Nickel                               | ND     |      | ug/L  | 1               | 2.0  | EPA 200.8 | 3/28/2002 at  | WS32878   |
| Thallium                             | ND     |      | ug/L  | 1               | 0.50 | EPA 200.8 | 3/28/2002 at  | WS32878   |
| Zinc                                 | ND     |      | ug/L  | 1               | 10.0 | EPA 200.8 | 3/28/2002 at  | WS32878   |
| <b>Prep. EPA 200.2</b>               |        |      |       |                 |      |           |               |           |
| Boron                                | 4400   |      | ug/L  | 1               | 10   | EPA 200.7 | 3/28/2002 na  | WS32810   |
| Iron                                 | ND     |      | ug/L  | 1               | 20   | EPA 200.7 | 3/28/2002 na  | WS32810   |
| Asenic                               | 18     |      | ug/L  | 1               | 10   | EPA 200.7 | 3/28/2002 na  | WS32810   |
| Chromium, total                      | ND     |      | ug/L  | 1               | 5    | EPA 200.7 | 3/28/2002 na  | WS32810   |
| Selenium                             | ND     |      | ug/L  | 1               | 10   | EPA 200.7 | 3/28/2002 na  | WS32810   |
| Mercury                              | ND     |      | ug/L  | 1               | 0.10 | EPA 245.1 | 4/1/2002 KCHN | WS32820   |
| Chloromethane                        | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| Vinyl chloride                       | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| Bromomethane                         | 17     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| Chloroethane                         | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| Trichlorofluoromethane (Freon 11)    | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| 1,1-Dichloroethane                   | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| Methylene chloride (Dichloromethane) | ND     |      | ug/L  | 1               | 5.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| trans-1,2-Dichloroethane             | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| 1,1-Dichloroethane                   | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| Chloroform                           | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| 1,1,1-Trichloroethane                | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| Carbon tetrachloride                 | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| Benzene                              | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| 1,2-Dichloroethane                   | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| Trichloroethene                      | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| 1,2-Dichloropropane                  | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| Bromodichloromethane                 | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| 2-Chloroethyvinyl ether              | ND     |      | ug/L  | 1               | 6.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| cis-1,3-Dichloropropene              | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| Toluene                              | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| trans-1,3-Dichloropropene            | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| 1,1,2-Trichloroethane                | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| Tetrachloroethane                    | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| Dibromodichloromethane               | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| Chlorobenzene                        | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| Ethyl benzene                        | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| Bromoform                            | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| 1,1,2,2-Tetrachloroethane            | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| 1,3-Dichlorobenzene                  | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |
| 1,4-Dichlorobenzene                  | ND     |      | ug/L  | 1               | 1.0  | EPA 824   | 3/28/2002 AS  | WS32848   |

Lab#: A202162

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Client: West Basin Municipal Water District  
Project Name: West Basin Water Rec. Plant

Report Date: Friday, April 05, 2002

## CERTIFICATE OF ANALYSIS

Lab#: A202162-005 Sample ID: Discharge Matrix: Sea Water  
Sampled By: T. Abegunde/T. Tran Date: 3/27/2002 Time: 9:35 Source: R & D

| Parameter                           | Result       | Flag            | Units     | Dilution Factor | RL   | Method  | Analyzed     | Worksheet # |
|-------------------------------------|--------------|-----------------|-----------|-----------------|------|---------|--------------|-------------|
| 1,2-Dichlorobenzene                 | ND           |                 | ug/L      | 1               | 1.0  | EPA 824 | 3/28/2002 AS | WS32848     |
| Acrolein                            | ND           |                 | ug/L      | 1               | 10.0 | EPA 824 | 3/28/2002 AS | WS32848     |
| Acrylonitrile                       | ND           |                 | ug/L      | 1               | 10.0 | EPA 824 | 3/28/2002 AS | WS32848     |
| Tentatively Identified Compounds    | See Attached |                 | ug/L      | 1               | 1.0  | EPA 824 | 3/28/2002 AS | WS32848     |
| Prep.                               | EPA 825      | Date: 3/27/2002 | By TH, JL |                 |      |         |              |             |
| N-Nitroso-dimethylamine             | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| Phenol                              | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| bis(2-Chloroethyl) Ether            | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| 2-Chlorophenol                      | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| 1,3-Dichlorobenzene                 | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| 1,4-Dichlorobenzene                 | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| 1,2-Dichlorobenzene                 | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| bis(2-Chloroisopropyl) ether        | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| N-Nitroso-di-n-propylamine          | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| Hexachloroethane                    | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| Nitrobenzene                        | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| Ippophorone                         | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| 2-Nitrophenol                       | ND           |                 | ug/L      | 1               | 20   | EPA 825 | 3/30/2002 bn | WS32797     |
| 2,4-Dimethylphenol                  | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| bis(2-Chloropropoxy) methane        | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| 2,4-Dichlorophenol                  | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| 1,2,4-Trichlorobenzene              | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| Naphthalene                         | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| Hexachlorobutadiene                 | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| 4-Chloro-3-Methylphenol             | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| Hexachlorocyclopentadiene           | ND           |                 | ug/L      | 1               | 20   | EPA 825 | 3/30/2002 bn | WS32797     |
| 2,4,6-Trichlorophenol               | ND           |                 | ug/L      | 1               | 20   | EPA 825 | 3/30/2002 bn | WS32797     |
| 2-Chloronaphthalene                 | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| Dimethyl phthalate                  | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| 2,6-Dinitrotoluene                  | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| Acenaphthylene                      | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| Acenaphthene                        | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| 2,4-Dinitrophenol                   | ND           |                 | ug/L      | 1               | 40   | EPA 825 | 3/30/2002 bn | WS32797     |
| 4-Nitrophenol                       | ND           |                 | ug/L      | 1               | 20   | EPA 825 | 3/30/2002 bn | WS32797     |
| 2,4-Dinitrotoluene                  | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| Dichloro pthalate                   | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| 4-Chlorophenyl phenyl ether         | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| Fluorene                            | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| 4,6-Dinitro-2-methylphenol          | ND           |                 | ug/L      | 1               | 20   | EPA 825 | 3/30/2002 bn | WS32797     |
| N-Nitroso-diphenylamine             | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| 1,2-Diphenylhydrazine as Azobenzene | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| 4-Bromophenyl phenyl ether          | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |
| Hexachlorobenzene                   | ND           |                 | ug/L      | 1               | 10.0 | EPA 824 | 3/30/2002 bn | WS32797     |
| Pentachlorophenol                   | ND           |                 | ug/L      | 1               | 10.0 | EPA 825 | 3/30/2002 bn | WS32797     |

Lab#: A202162

Page 3 of 6



Client: West Basin Municipal Water District  
Project Name: West Basin Water Rec. Plant

Report Date: Friday, April 05, 2002

### CERTIFICATE OF ANALYSIS

Lab#: A202162-005 Sample ID: Discharge Matrix: Sea Water  
Sampled By: T. Adegunde/T. Tran Date: 3/27/2002 Time: 9:38 Source: R & O

| Parameter                        | Result       | Flag | Units | Dilution Factor | RL   | Method  | Analyzed  | Worksheet # |
|----------------------------------|--------------|------|-------|-----------------|------|---------|-----------|-------------|
| Phenanthrene                     | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 | bn WS32797  |
| Anthracene                       | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 | bn WS32797  |
| di-n-butyl phthalate             | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 | bn WS32797  |
| Fluoranthene                     | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 | bn WS32797  |
| Benzidene                        | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 | bn WS32797  |
| Pyrene                           | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 | bn WS32797  |
| Butyl benzyl phthalate           | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 | bn WS32797  |
| 3,3'-dichlorobenzidine           | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 | bn WS32797  |
| bis (2-ethylhexyl) phthalate     | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 | bn WS32797  |
| Benzo (a) Anthracene             | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 | bn WS32797  |
| Chrysene                         | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 | bn WS32797  |
| d-n-Octyl phthalate              | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 | bn WS32797  |
| Benzo (b) Fluoranthene           | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 | bn WS32797  |
| Benzo (k) Fluoranthene           | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 | bn WS32797  |
| Benzo (a) Pyrene                 | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 | bn WS32797  |
| Indeno (1,2,3-cd) Pyrene         | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 | bn WS32797  |
| Dibenzo (a,h) Anthracene         | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 | bn WS32797  |
| Benzo (g,h) Perylene             | ND           |      | ug/L  | 1               | 10.0 | EPA 825 | 3/30/2002 | bn WS32797  |
| Tentatively Identified Compounds | See attached |      |       | 1               |      | EPA 825 | 3/30/2002 | bn WS32797  |

| Param.              | EPA 808 | Date: 4/2/2002 | By TH/L |      |   |      |         |                     |
|---------------------|---------|----------------|---------|------|---|------|---------|---------------------|
| Aldrin              | ND      |                |         | ug/L | 1 | 0.10 | EPA 808 | 4/4/2002 kk WS32982 |
| alpha-BHC           | ND      |                |         | ug/L | 1 | 0.10 | EPA 808 | 4/4/2002 kk WS32982 |
| beta-BHC            | ND      |                |         | ug/L | 1 | 0.10 | EPA 808 | 4/4/2002 kk WS32982 |
| delta-BHC           | ND      |                |         | ug/L | 1 | 0.10 | EPA 808 | 4/4/2002 kk WS32982 |
| gamma-BHC (lindane) | ND      |                |         | ug/L | 1 | 0.10 | EPA 808 | 4/4/2002 kk WS32982 |
| 4,4'-DDO            | ND      |                |         | ug/L | 1 | 0.10 | EPA 808 | 4/4/2002 kk WS32982 |
| 4,4'-DDE            | ND      |                |         | ug/L | 1 | 0.10 | EPA 808 | 4/4/2002 kk WS32982 |
| 4,4'-DDT            | ND      |                |         | ug/L | 1 | 0.10 | EPA 808 | 4/4/2002 kk WS32982 |
| Dieldrin            | ND      |                |         | ug/L | 1 | 0.10 | EPA 808 | 4/4/2002 kk WS32982 |
| Endosulfan I        | ND      |                |         | ug/L | 1 | 0.10 | EPA 808 | 4/4/2002 kk WS32982 |
| Endosulfan II       | ND      |                |         | ug/L | 1 | 0.10 | EPA 808 | 4/4/2002 kk WS32982 |
| Endosulfan sulfate  | ND      |                |         | ug/L | 1 | 0.10 | EPA 808 | 4/4/2002 kk WS32982 |
| Endrin              | ND      |                |         | ug/L | 1 | 0.10 | EPA 808 | 4/4/2002 kk WS32982 |
| Endrin aldehyde     | ND      |                |         | ug/L | 1 | 0.10 | EPA 808 | 4/4/2002 kk WS32982 |
| Heptachlor          | ND      |                |         | ug/L | 1 | 0.10 | EPA 808 | 4/4/2002 kk WS32982 |
| Heptachlor epoxide  | ND      |                |         | ug/L | 1 | 0.10 | EPA 808 | 4/4/2002 kv WS32982 |
| Methoxychlor        | ND      |                |         | ug/L | 1 | 0.10 | EPA 808 | 4/4/2002 kk WS32982 |
| Toxaphene           | ND      |                |         | ug/L | 1 | 1.50 | EPA 808 | 4/4/2002 kk WS32982 |
| Chlordane           | ND      |                |         | ug/L | 1 | 0.50 | EPA 808 | 4/4/2002 kk WS32982 |
| Aroclor-1016        | ND      |                |         | ug/L | 1 | 1.00 | EPA 808 | 4/4/2002 kk WS32982 |
| Aroclor-1221        | ND      |                |         | ug/L | 1 | 1.00 | EPA 808 | 4/4/2002 kv WS32982 |
| Aroclor-1232        | ND      |                |         | ug/L | 1 | 1.00 | EPA 808 | 4/4/2002 kk WS32982 |
| Aroclor-1242        | ND      |                |         | ug/L | 1 | 1.00 | EPA 808 | 4/4/2002 kk WS32982 |
| Aroclor-1248        | ND      |                |         | ug/L | 1 | 1.00 | EPA 808 | 4/4/2002 kk WS32982 |

Lab#: A202162

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Client: West Basin Municipal Water District  
Project Name: West Basin Water Rec. Plant

Report Date: Friday, April 05, 2002

## CERTIFICATE OF ANALYSIS

Lab#: A202162-005 Sample ID: Discharge Matrix: Sea Water  
Sampled By: T. Abegunde/T. Tran Date: 3/27/2002 Time: 9:35 Source: R & D

| Parameter    | Result | Flag | Units | Dilution Factor | RL   | Method  | Analysed    | Voucher # |
|--------------|--------|------|-------|-----------------|------|---------|-------------|-----------|
| Aroclor-1254 | ND     |      | ug/L  | 1               | 1.00 | EPA 808 | 4/4/2002 kk | WS32882   |
| Aroclor-1260 | ND     |      | ug/L  | 1               | 1.00 | EPA 808 | 4/4/2002 kk | WS32882   |

  
Authorized SignatureELAP # 1132  
LACSD # 10143

## Flags for Data Qualifiers:

- B = Compound detected in the blank. Sample result equal or less than 10 times the concentration in the blank.
- J = Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- H = Estimated value, result over the calibration range.
- R = Result is suspect, LCS recovery greater than the upper control limit.
- L = Result is suspect, LCS recovery lower than the control limit.
- Q = QC result out of acceptance limits.
- T = Trace detection, detected but below the reporting limit.

## Notes:

- The Chain of Custody document is part of the analytical report.
- Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
- All results are expressed on wet weight basis unless specified.
- RL = Reporting Limit.
- ND = Not detected, below the reporting limit.
- Sub = Subcontracted analysis, original report enclosed.



**Client:** West Basin Municipal Water District  
17140 South Avalon Blvd., Suite 210  
Carson, CA 90746-1218  
  
**Attn.:** Ms. Cheryl Ross  
(310) 660-6246 FAX (310) 217-2414

**Lab#** A202162 (4-5)  
**Report Date:** April 5, 2002  
**Date Rec'd:** March 27, 2002

**Sample:** Sea Waters taken on 3/27/02 by T. Abegunde and T. Tran.

**Project:** West Basin Water Reclamation Plant / R & D

**Investigation:** Tentatively Identified Compounds

### **Addendum Report**

A202164-004 "Influent"

EPA Method 624: (Tentatively Identified Compounds)

| <u>Compound</u> | <u>Est. Concentration</u> |
|-----------------|---------------------------|
| Carbon Dioxide  | 270 ug/L                  |
| Sulfur Dioxide  | 23 ug/L                   |

EPA Method 625: (Tentatively Identified Compounds)

| <u>Compound</u>                   | <u>RT</u> | <u>Est Conc. ug/L</u> | <u>Q value</u> | <u>CAS#</u> |
|-----------------------------------|-----------|-----------------------|----------------|-------------|
| 2-Hydroxy-2-methyl-propanoic acid | 7.18      | 0.99                  | 9              | 594-61-6    |
| 2-Ethyl-4-methyl-1,3-Dioxolane    | 8.65      | 2.7                   | 50             | 4359-46-0   |



Weck ID# A202162 (4-5)  
Page 2 of 2


A202164-005 "Discharge"

EPA Method 624: (Tentatively Identified Compounds)

| <u>Compound</u> | <u>Est. Concentration</u> |
|-----------------|---------------------------|
| Carbon Dioxide  | 310 ug/L                  |
| Sulfur Dioxide  | 230 ug/L                  |

EPA Method 625: (Tentatively Identified Compounds)

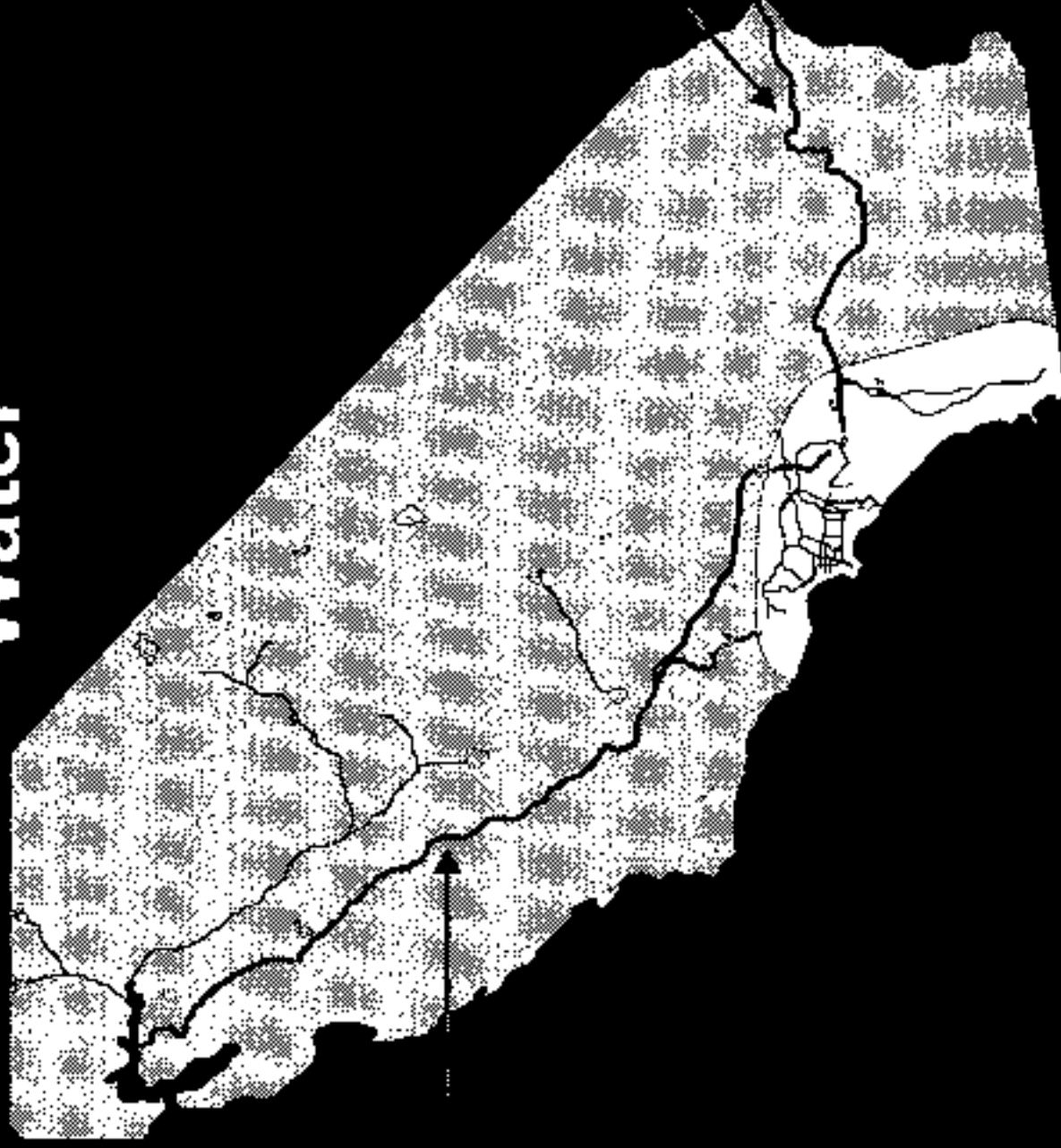
| <u>Compound</u>                       | <u>RT</u> | <u>Est. Conc. Ug/L</u> | <u>Q Value</u> | <u>CAS#</u> |
|---------------------------------------|-----------|------------------------|----------------|-------------|
| 2-Hydroxy-2-methyl-<br>propanoic acid | 7.16      | 0.34                   | 1              | 594-61-6    |
| 2-Ethyl-4-methyl-<br>1,3-dioxolane    | 8.64      | 0.66                   | 38             | 4359-46-0   |

  
Jayna Kostura  
tn

# **Sea Water Desalination**

**West Basin Municipal Water District**

# • Southern California's Imported Water



# Water Supply

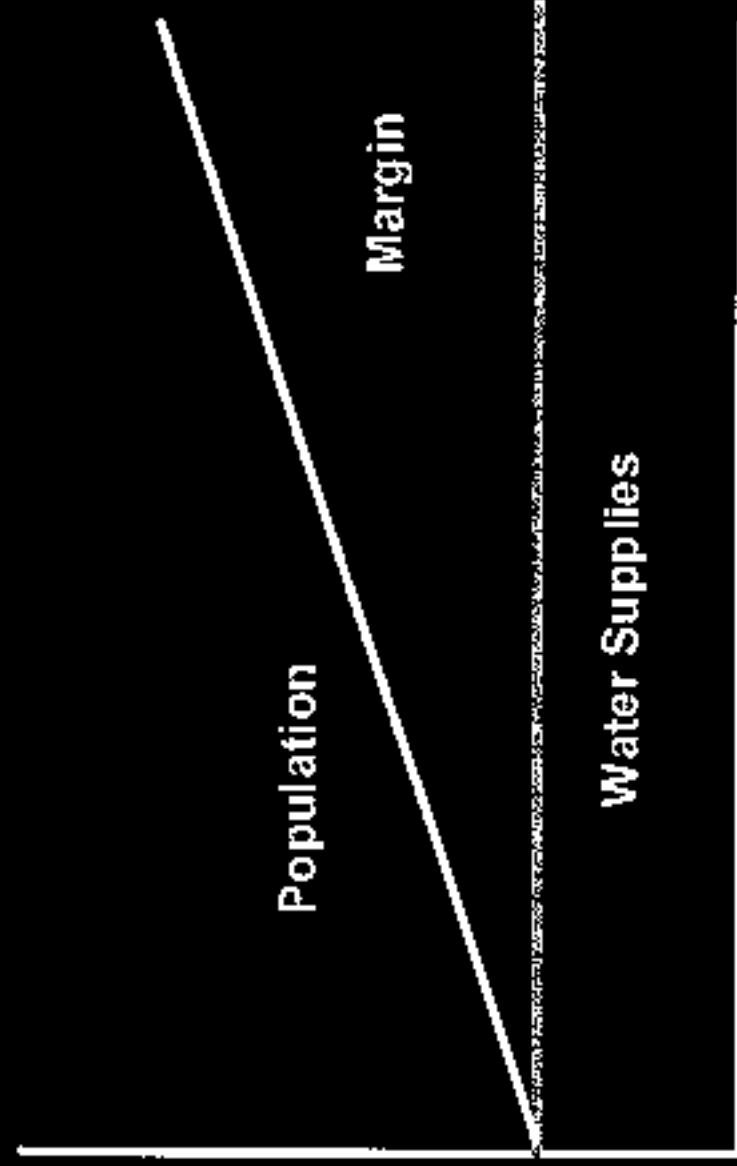
## Imported (66%)

- Northern California
- Colorado River

## Local Water (34%)

- Groundwater
- Water Recycling
- Conservation
- Sea Water Desalination (potential)

# Future Water Supplies

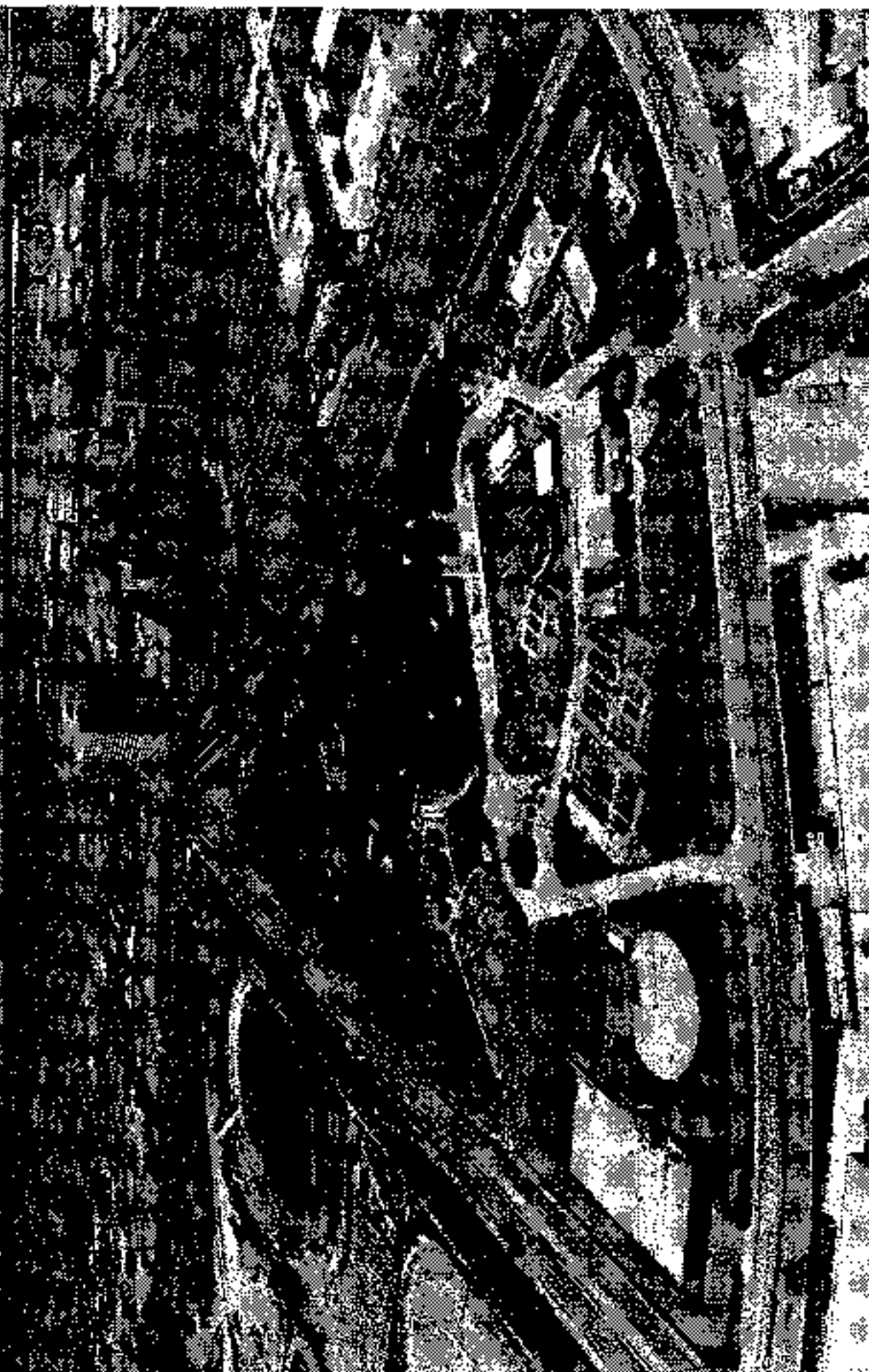


# Local Water Supply

## Benefits

- Provides a local, dependable water supply
- Reduces need to import water from Northern California
- Contributing to “Statewide Water Solution” of reducing imported water

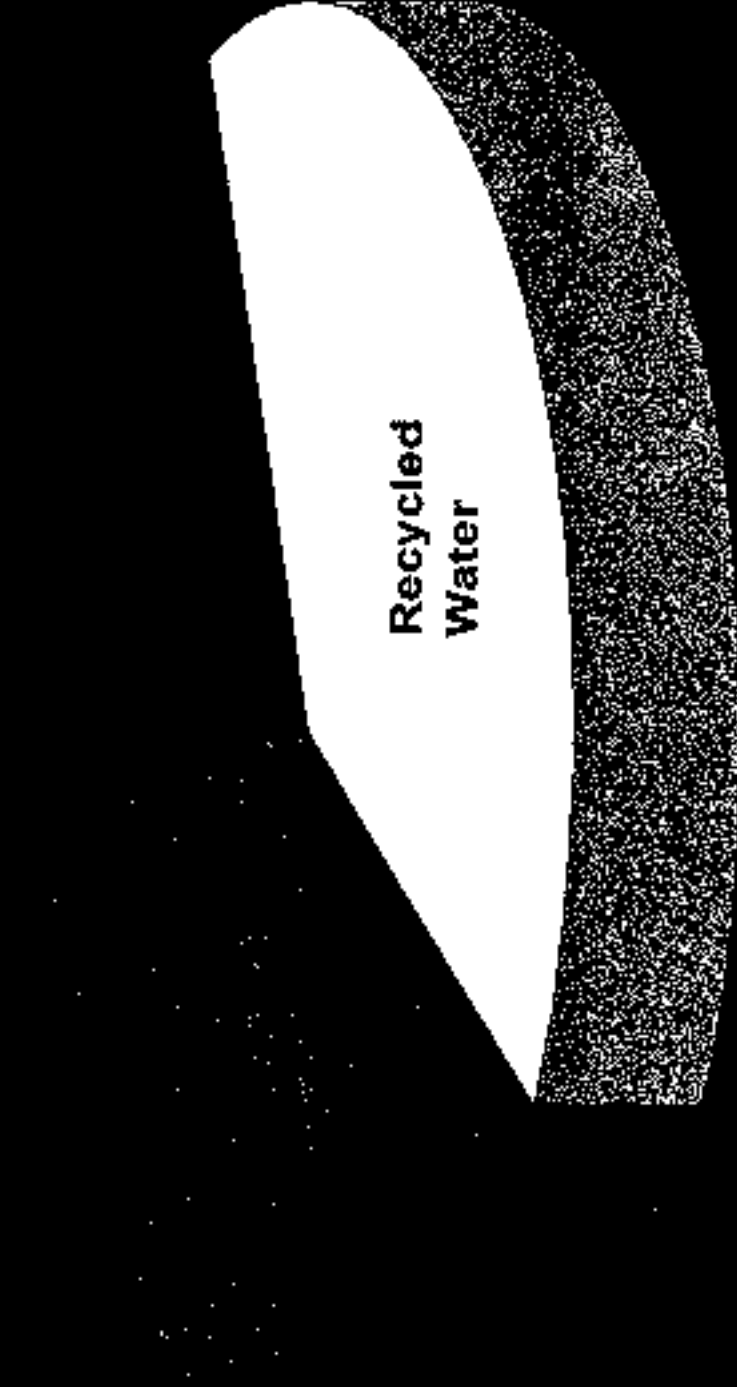
# WEST BASIN WATER RECYCLING PLANT



# West Basin Water Recycling Plant

Program Goal: 70,000 AFY Recycled Water by 2020

- Replace 1/2 of Imported Water with Recycled Water



# **“Custom Designed Water”**

**5 Qualities Depending on the Customer Uses:**

**1. Tertiary**

*Irrigation*

**2. Nitrified**

*Cooling Tower*

**3. Stabilized RO**

*GW Injection*

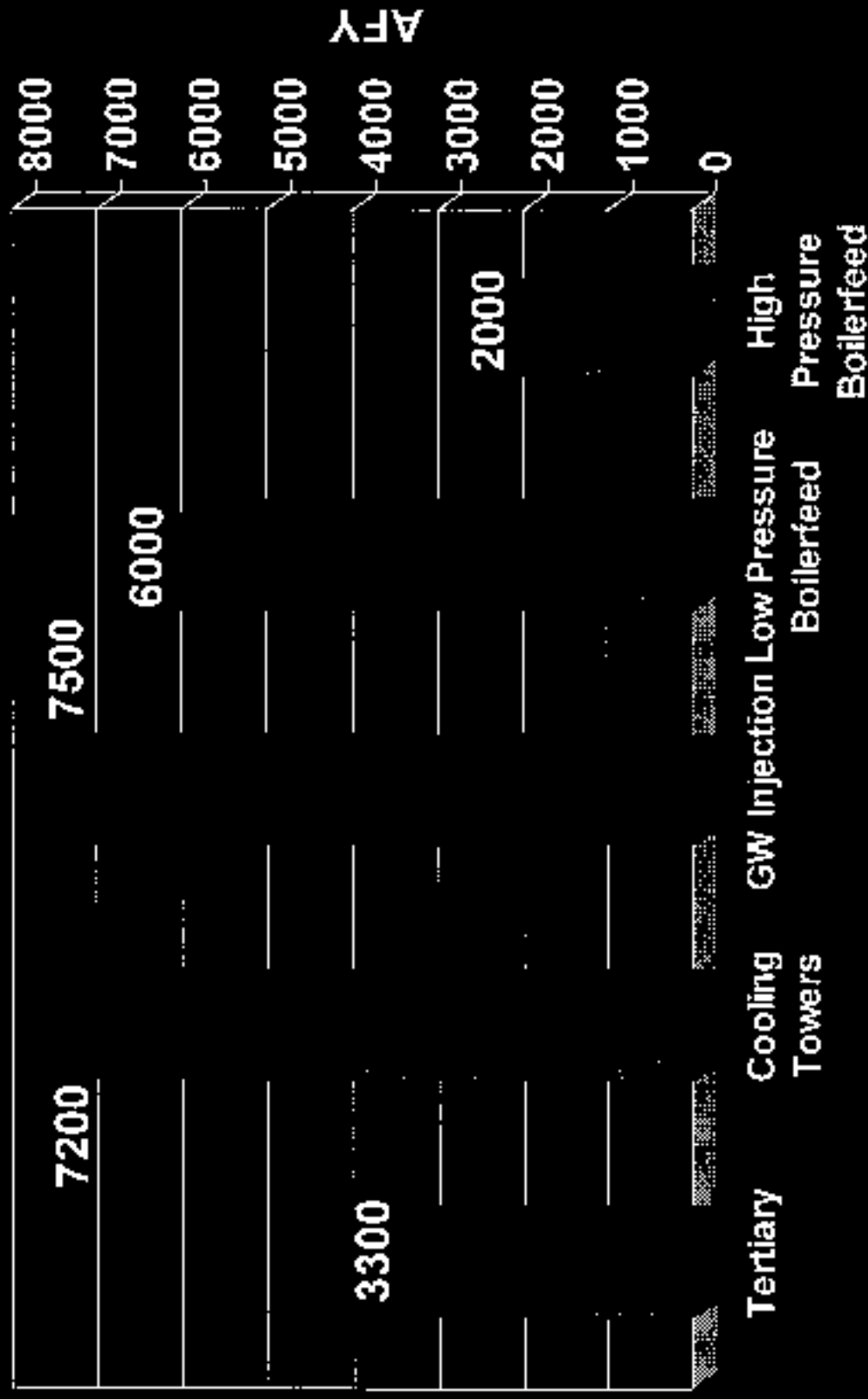
**4. Unstabilized RO**

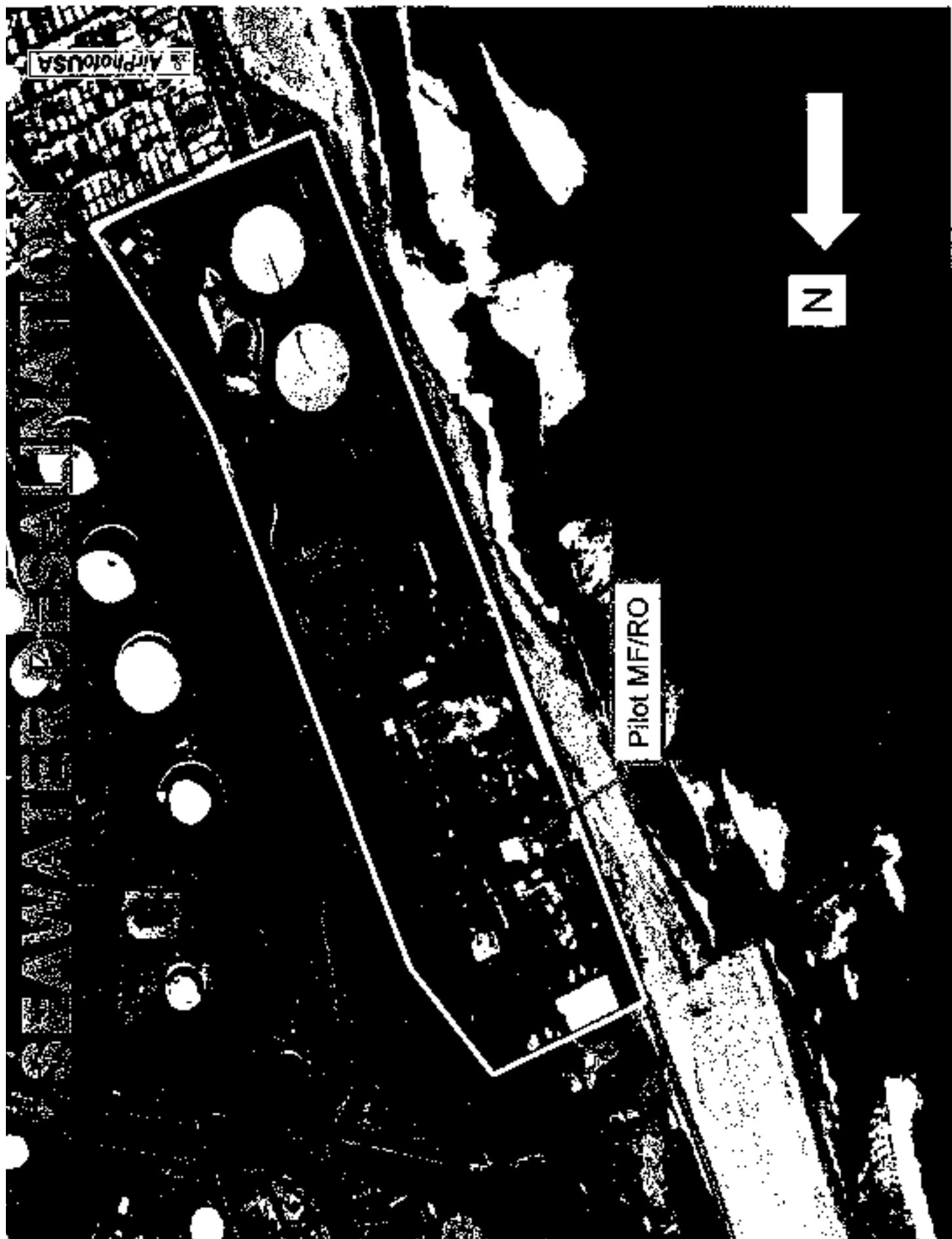
*Low Pressure Boiler Feed*

**5. 2nd Pass RO**

*High Pressure Boiler Feed*

# Custom Designed Recycled Water



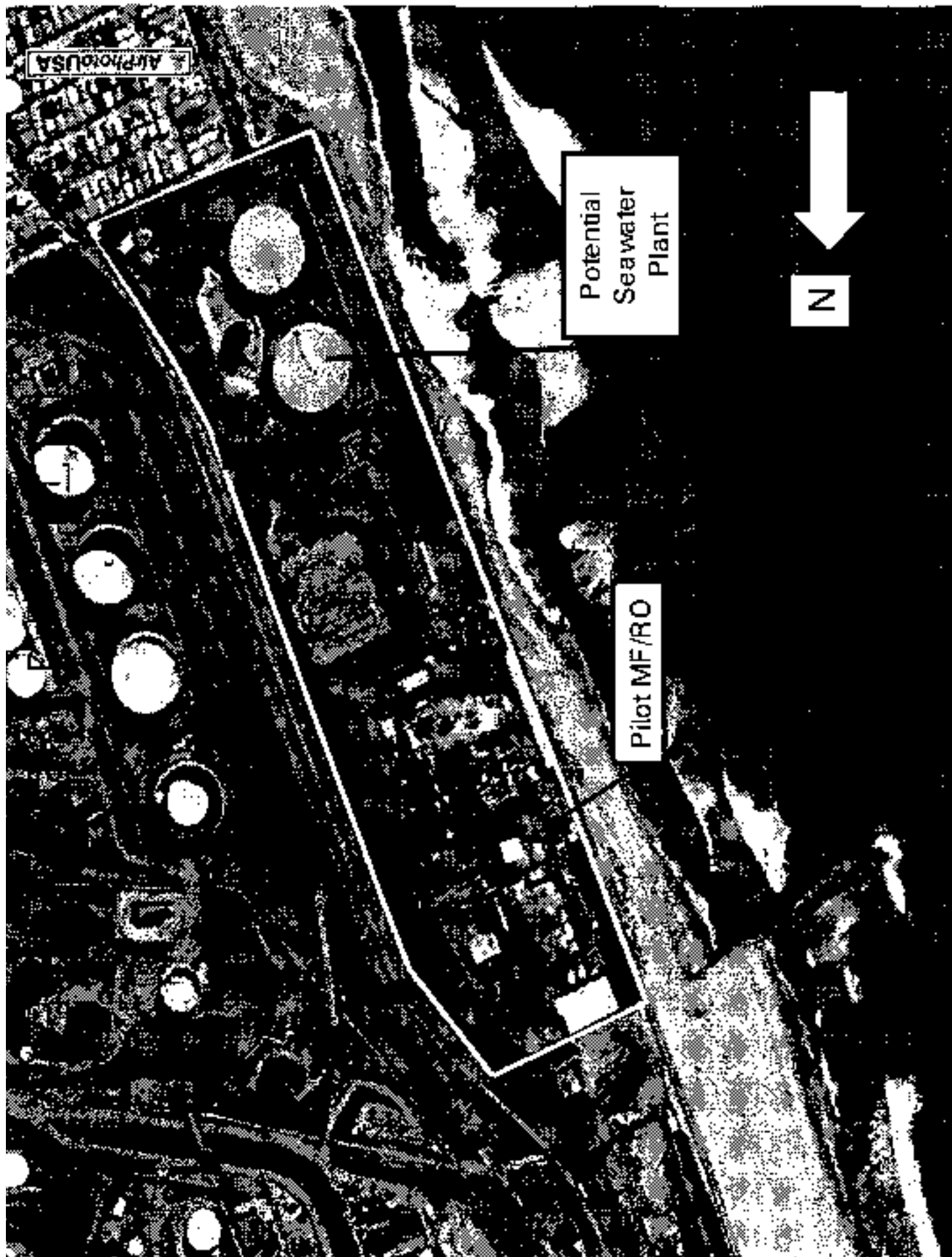


Pilot MF/RO



Z

AirPhotoUSA



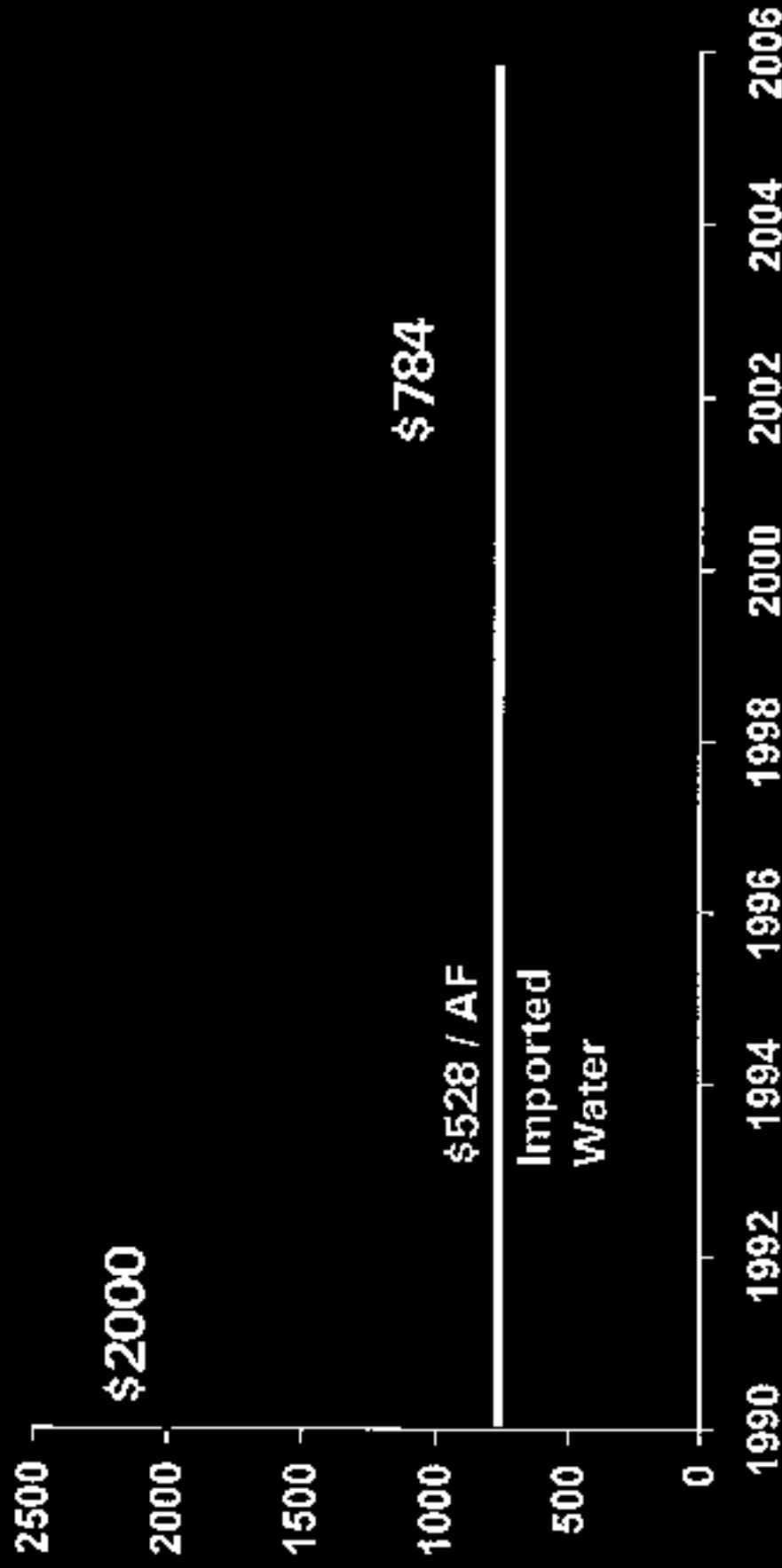
AIRPHOTOUSA

Potential  
Seawater  
Plant

N

Pilot MF/RO

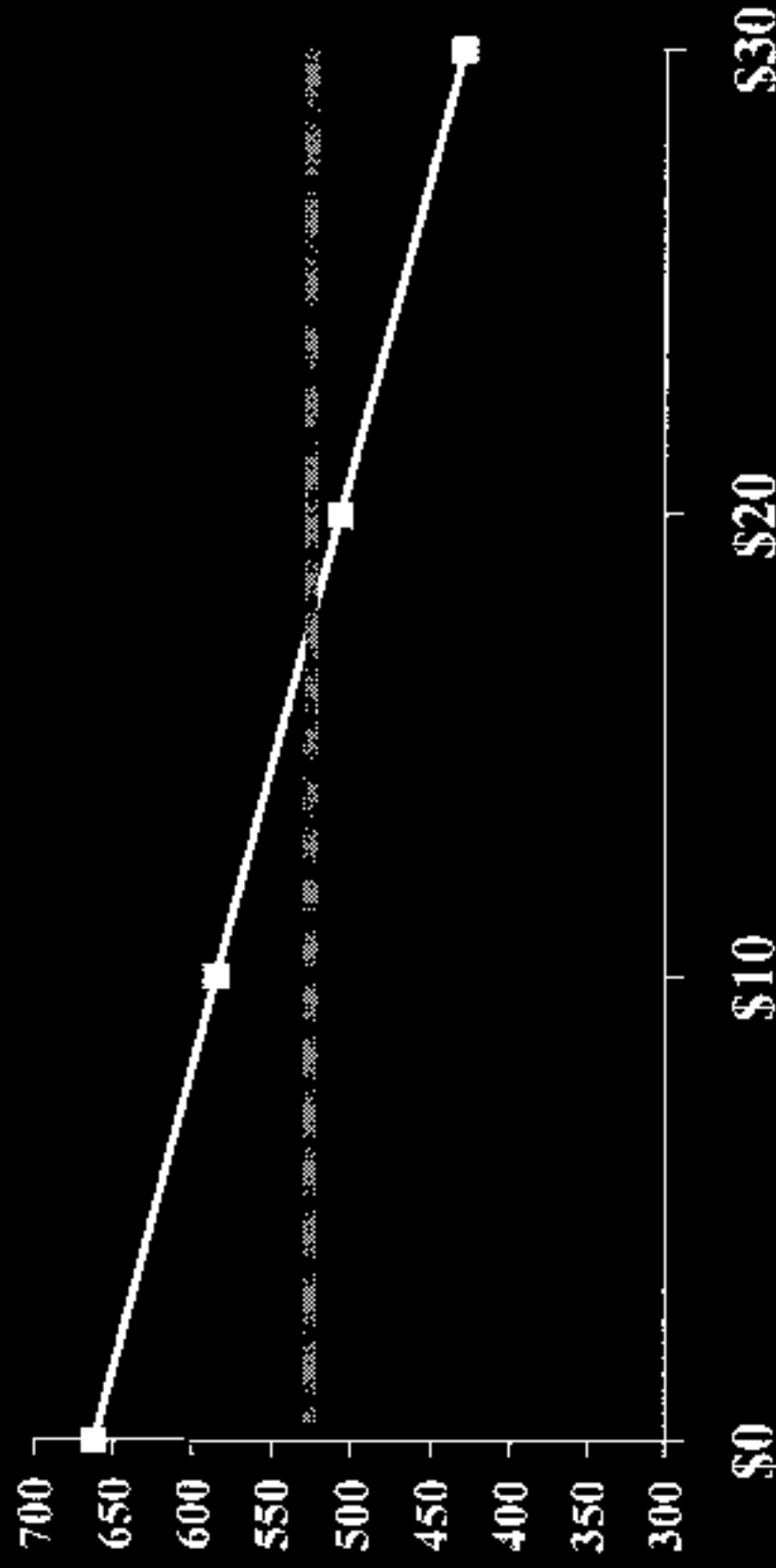
# Seawater Desalination Treatment Cost



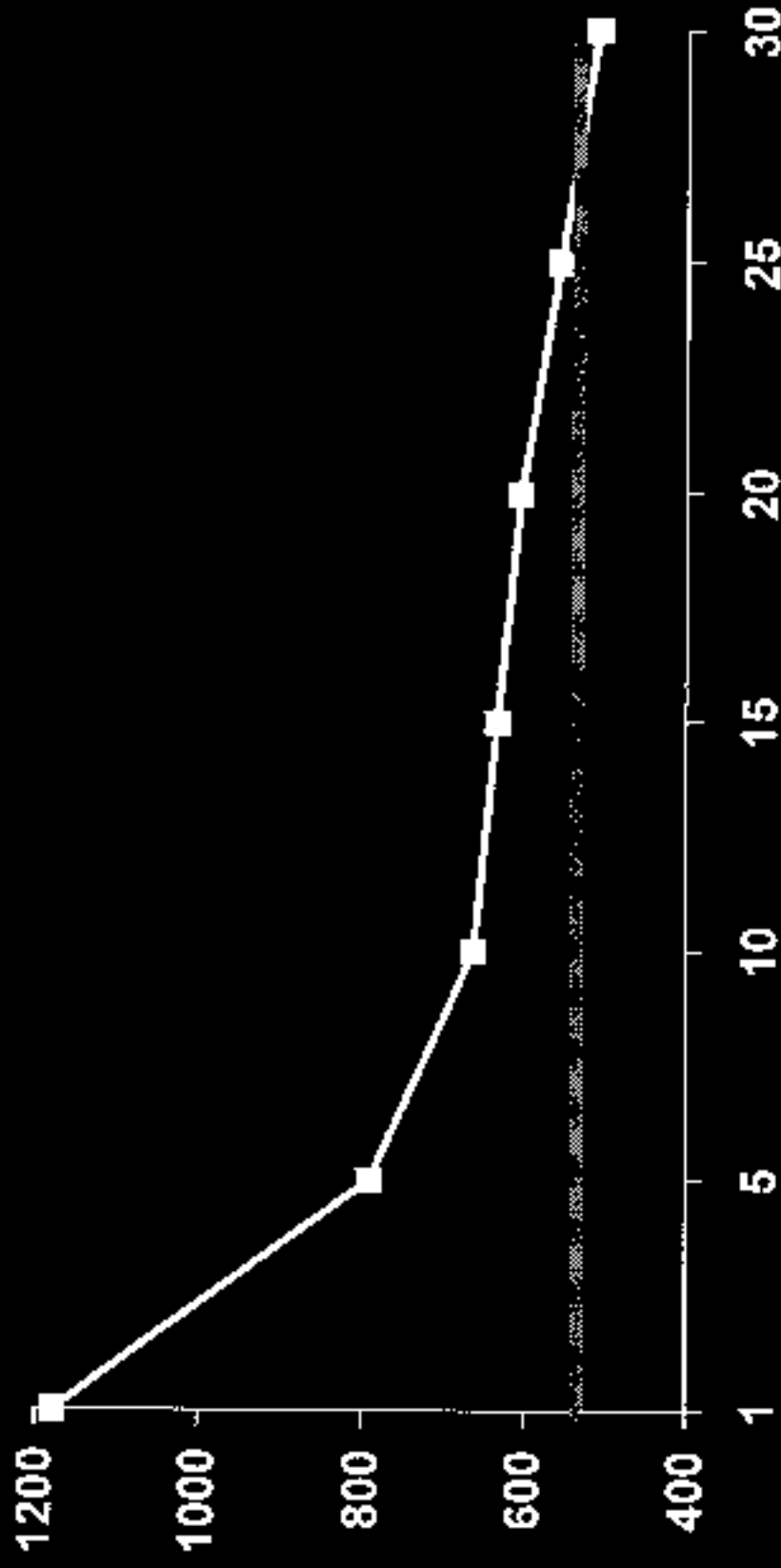
# Potential Cost Reductions

- Energy
- O&M Cost
- Capital Grants
- Capital Cost
- Increase Plant Size
- Increase MWD Subsidy

# Seawater Desalination Cost vs. Capital Grants Received

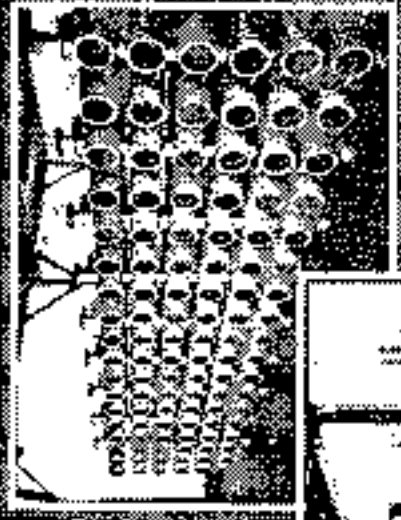
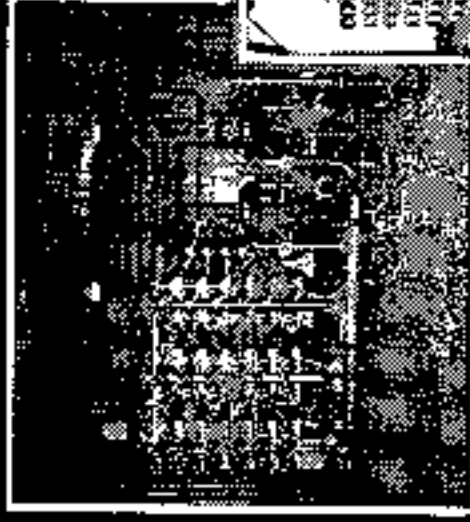


# Seawater Desalination Cost vs. Treatment Plant Size



# West Basin Municipal Water District Reverse Osmosis Desalination Experience

- First installation in 1993 for potable water production
- Currently over 20 mgd RO capacity in operation
- Leader in use of Microfiltration as pretreatment with active research program



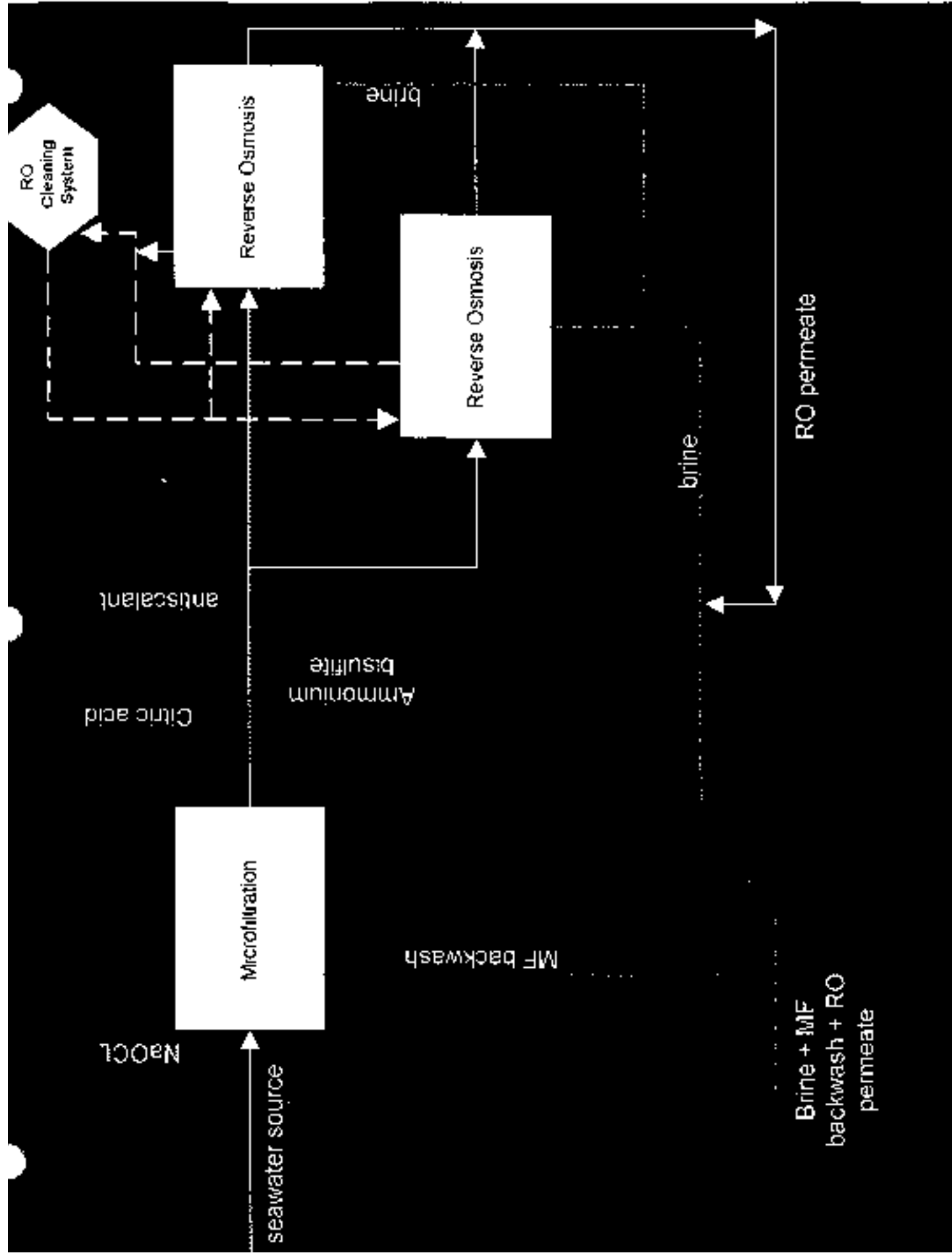
# **WBMWD Hosted - Research Workshop with Various Technical Experts (5/01)**

## **Highest Research Needs**

- Water Quality**
- Process Pre-Treatment**

# **WBMWD's Approach: Sea Water Desalination**

- **Seawater Pilot Plant**
- **Regional Approach**
- **Seeking local, state, and federal support**
- **Research and Education**
- **Demonstration project from  
1 to 10 mgd**



# Operational Research

- USBR, NWRI Awarded ~\$250,000
- Build Pilot Plant
- Obtain Operations/Cost Information

# **Water Quality Research**

- **AWWARF Awarded \$350,000**
- **Financial Support from: WBMWD, Tampa, LADWP, Calleguas**
- **Technical Support from: MWD and City of Long Beach**

# **Water Quality R&D Objectives**

- **Effects of source water quality**
- **Water Quality Performance goals**
- **Treatment costs**
- **Brine disposal assessment**

## **Additional R&D Efforts**

- **source water quality and variations**
- **effects of pre-treatment**
- **corrosion control**
- **distribution system compatibility**
- **taste and odor and consumer acceptance**
- **temperature effects, including re-growth**

# **Future R&D Partners & Goals**

- **Research**
  - **Full Pipe Loop Corrosion Control**
  - **Pathogen Challenge Test**
  - **Microbial Re-Growth**
  - **Specialty Water Quality Analyses**
- **Possible New Partners**
  - **Avocado Farmers Association**
  - **San Diego County Water Authority**
  - **DWR**
  - **South Florida Water Management District**



**California Regional Water Quality Control Board  
Los Angeles Region**



Environmental  
Protection  
Agency  
Secretary for  
Environmental  
Protection

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320 W. 4th Street, Suite 200, Los Angeles, California 90013  
Phone (213) 576-6600 FAX (213) 575-6540 - Internet Address: <http://www.swrcb.ca.gov/rwqcb/>

Arnold Schwarzenegger  
Governor

April 12, 2004

Mr. Richard Nagel  
Water Quality Manager  
West Basin Municipal Water District  
17140 S. Avalon Blvd., Suite 210  
Carson, CA 90746-1296

**PIPE LOOP CORROSION STUDY ASSOCIATED WITH SEAWATER DESALINATION PILOT  
PLANT OPERATION - WEST BASIN MUNICIPAL WATER DISTRICT (LOCATION: EL  
SEGUNDO GENERATING STATION)**

Dear Mr. Nagel:

Thank you for your letter dated April 5, 2004, informing the Regional Water Quality Control Board (Regional Board) of your plans, and seeking Regional Board's approval to conduct a pipe loop study. The study is designed to evaluate the effects of reverse osmosis (RO) treated seawater on typical household plumbing materials (copper, galvanized steel and brass).

Three blends of water will be tested: 1) 100% stabilized RO permeate; 2) 50% stabilized RO permeate and 50% Metropolitan Water District (MWD) drinking water; and 3) 100% MWD water. Each metal type and water source will be tested in triplicate resulting in a total of 27 pipe loops, each with a volume of approximately one liter of water. The total flow that will result from the study will be 1620 gallons per day. The water will be sent to a retention basin located at the El Segundo Generating Station (ESGS) and ultimately discharged with the cooling water (regulated under NPDES permit CA0001147, CI-4667).

The quantity of loop study water discharged is relatively small (the minimum condenser coolant flow is approximately 100 million gallons per day, and this will contribute 0.000162%) and the leachate containing regulated metals, is expected to have little to no detections of metals. We have no objections to the study, and have determined that the operation will not constitute a material change for the NPDES permit issued to the ESGS (CA0001147, CI-4667). Permission is granted to conduct the study for one year (expires on May 31, 2005).

All of the 27 discharge streams (to the retention basin) is required to be monitored on a monthly basis for lead, copper, iron and zinc. The average daily flow of discharge to the retention basin, and all chemicals (including the type, amount and concentration) that are needed to be added to the proposed study shall be included in the monitoring report that shall be submitted to the Regional Board. All monitoring reports shall be submitted on a quarterly basis and must be received by the dates in the following schedule:



**West Basin Municipal Water District**

17140 S. Avalon Blvd • Suite 210 • Carson, CA 90746-1296

telephone 310-217-2411 • fax 310-217-2414

April 5, 2004

David Hung  
Senior Water Resource Control Engineer  
California Regional Water Quality Control Board, Los Angeles Region  
320 W. 4<sup>th</sup> Street, Suite 200  
Los Angeles, CA 90013

Dear Mr. Hung

**Pipe Loop Corrosion Study**

Per the your recommendation following the meeting with your staff, NRG and ourselves on March 27, 2004, West Basin Municipal Water District's (West Basin) would like to update you on our upcoming pipe loop corrosion study at the Desal Pilot Unit and request concurrence. Attached you will find NRG's approval letter dated January 13, 2004 pertaining to the pipe loop study.

El Segundo Power LLC has permitted West Basin to install and maintain a small-scale seawater desalination pilot plant sited at the El Segundo Power Generating Station since May of 2002, with the cooperation of the Regional Water Quality Control Board. The pilot plant is operated by a consortium of organizations led by West Basin.

As part of the ongoing research into seawater desalination, West Basin has constructed a small distribution system of pipe loops designed to evaluate the effects of reverse osmosis (RO) treated seawater on typical household plumbing materials (copper, galvanized steel, and brass). Three blends of water will be tested: 100% stabilized RO permeate, 50% stabilized RO permeate and 50% Metropolitan Water District (MWD) drinking water and 100% MWD treated surface water. Each metal type and water source will be tested in triplicate to ensure statistically valid effluent results, resulting in a total of 27 pipe loops, each with a volume of approximately 1 L of water. The pipe loops study is being conducted to demonstrate that seawater-derived potable water is stable, non-corrosive, and does not present any health risks.

RECEIVED  
PPM APR -6 AM 9:13  
OFFICE OF THE  
GENERAL MANAGER  
REGIONAL WATER QUALITY CONTROL BOARD  
LOS ANGELES REGION

El Segundo Power LLC  
301 Vista Del Mar  
El Segundo, CA 90245

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JB  
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January 13, 2004

Paul E. Shoenberger, P.E.  
Chief of Engineering & Operations  
West Basin Municipal Water District  
17140 S. Avalon Boulevard  
Suite 210  
Carson California, 90746

SUBJECT: Special Handling of Desalination Pilot Plant Metals Discharge

Dear Mr. Shoenberger:

Since May of 2002, El Segundo Power LLC has permitted West Basin Municipal Water District (West Basin) to install and maintain a small-scale (less than 80 gpm) seawater desalination demonstration pilot plant sited at the El Segundo Power Generating Station. The pilot plant is operated by a consortium of organizations led by West Basin.

We understand that the pilot plant is initiating a corrosion control study that contains a series of metal (copper, galvanized steel, and brass) pipe loops, meant to mimic piping configurations typically found in household plumbing. You have advised us that understanding the behavior of stabilized desalinated seawater in such household materials is critical to the successful development of seawater-derived potable water supplies, and that equally critical to the development of these supplies is being able to understand and address concentrate discharge from such facilities.

Due to concern over metal concentrations in the discharge, however small for this application, special handling of the discharge for this particular portion of the pilot plant has been provided for. The pipe loop discharge will be sent to a retention basin at the power plant prior to being discharged with cooling water. You have advised us that the pipe loop portion of the pilot plant generates 2,247 milligrams (mg) per day of copper, 3 mg per day of lead, and 204 mg per day of iron. The average volume of the retention basin is 600,000 gallons, and the minimum condenser coolant flow is 98 million gallons per day; thus the resultant metal concentrations from pilot plant operations in the power plant discharge is predicted to be 0.0007, 0.000009, and 0.0006 micrograms per liter of copper, lead, and iron, respectively. It is expected that the metals loading to the discharge under this operating scenario will produce a negligible and undetectable contribution to the metals discharge of the power plant, and are substantially lower than the 6-month median limiting concentrations of the Regional Water Quality Control Board Ocean Plan.



**West Basin Municipal Water District**

17140 S. Avalon Blvd • Suite 210 • Carson, CA 90746-1296

telephone 310-217-2411 • fax 310-217-2414

16 June 2004

Mazhar Ali  
California Regional Water Quality Control Board, Los Angeles Region  
320 E. 4<sup>th</sup> Street, Suite 200  
Los Angeles, CA 90013

Dear Mr. Ali:

**Accurate and Reliable Metals Analysis and Reporting in Seawater Matrices**

Since May of 2002, West Basin Municipal Water District (West Basin) has been operating an ocean water desalination pilot plant at the El Segundo Power L.L.C. plant in El Segundo based upon a Memorandum of Understanding between the two organizations, as well as approval from the Regional Water Quality Control Board (RWQCB).

West Basin appreciates the support of the RWQCB to pursue ocean water desalination. Recent patterns of drought as well as litigation over water rights have illustrated the need to diversify our water supply portfolio for long-term reliability. We feel that ocean water desalination is the key to long term reliability.

As part of the RWQCB's approval of the ocean water desalination pilot plant, waste brine monitoring reports are submitted on a quarterly basis. After reviewing the first three reports submitted (October 14, 2002, January 8, 2003, and April 10, 2003), West Basin has learned that the metals data submitted was likely in error based on the following lines of evidence:

1) A mass balance applied to select metals, in particular, arsenic, selenium, and copper, based on raw water concentrations and concentrations in the discharge does not equate.

The Inductively Coupled Plasma/Mass Spectrometry (ICP/MS) instrument is perhaps the best technique for analysis of trace metals at low levels in water matrices. When using EPA method 200.8, part-per-billion (ppb) level detection limits are obtainable with little interference for many trace metals. Most interferences can

Darryl G. Miller, General Manager

easily be corrected for through use of mass flow controllers, internal standards, and proper instrument tuning and operation. Molecular ion interferences in ICP/MS are caused by ions consisting of more than one atom that have the same nominal mass-to-charge ratio ( $m/z$ ) as the isotope of interest. For example, arsenic, which is quantified at  $m/z$  of 75, can be interfered by formation of argon chloride ( $m/z = 75$ ) in samples with high chloride. These interferences must be corrected for through use of factors applied during data collection. Corrections for most common interferences are included in the ICP/MS methods used at laboratories.

The correction works as follows: the interfering ion (chloride in the example above) is measured at an alternate mass during the analysis. The concentration of the interfering ion is multiplied by a correction factor determined by atomic ratios, and confirmed through spiking studies. This result (interfering ion concentration times correction factor) is subtracted from the result of the element being measured. Corrections must be applied to known interfering ions, but over-use of correction factors will cause additional error in analytical results through additive error.

2) The analytical method employed for the analysis of these particular samples has known interferences that are not commonly encountered in drinking water and wastewater matrices, for which the analytical method is typically used.

Only interferences that are expected in the sample matrix tested are corrected for when using method 200.8. At the West Basin, Weick and MWD laboratories, the usual levels of sodium, chloride, and bromine in the waters tested are in a range where they do not interfere with ICP/MS analysis of arsenic, selenium and copper. Seawater has a much higher concentration of sodium, chloride and bromine, so sample dilution was used to lower the concentrations to a level where they do not interfere. No additional correction was applied to the analysis of the discharge samples. Only dilution was used to reduce the interferences.

The arsenic, selenium and copper results of the discharge samples analyzed at the West Basin laboratory were just above the respective detection limits for these elements after the dilution was taken into account. The detection limits were 50 ppb for arsenic, and 100 ppb for both selenium and copper. The results reported are suspect due to the closeness of the results to the detection limits, and that no additional molecular ion corrections for sodium, chloride and bromine were used.

Table 1 documents these sample results collected for the waste brine monitoring reports. Results were generated by analytical method 200.8 and are in ppb. All other metals were non-detect.

**Table 1**  
**Waste Brine Metals Analysis**

| <b>Metal</b> | <b>6 Aug 2002</b> | <b>19 Nov 2002</b> | <b>26 Feb 2003</b> | <b>Detection Limit<sup>a</sup></b> |
|--------------|-------------------|--------------------|--------------------|------------------------------------|
| Arsenic      | 79                | 57                 | 60                 | 50                                 |
| Copper       | 150               | 150                | 129                | 100                                |
| Selenium     | 260               | 190                | 225                | 100                                |

<sup>a</sup> After dilution taken into account

A database being developed as part of this research project contains greater numbers of metals data using analytical techniques developed for seawater matrices that are designed to substantially reduce seawater interferences. This database suggests that the metals data submitted to the RWQCB as part of the waste brine monitoring reports was biased upwards and that actual metals concentrations are much less than what was reported.

Analytical results for the database were originally supplied from the Metropolitan Water District of Southern California (MWD) water quality laboratory. Early on, MWD reported false positives and also identified some analytes that they were not equipped to analyze and arranged for analysis by suitable commercial laboratories. Water quality samples for arsenic and selenium collected during this study were first analyzed by Weck Laboratories using the hydride generation pretreatment technique and subsequent ICP-MS. The hydride generation technique removes arsenic and selenium from the seawater and brine matrices prior to analysis on the ICP-MS instrument. Arsenic and selenium concentrations are observed to be in the single-digit microgram per liter range (Table 2). Mercury was also analyzed by Weck using the cold-vapor technique, and was observed to be in the 1/100<sup>th</sup> of a microgram per liter range.

**Table 2**  
**Raw Seawater and Pilot Plant RO Concentrate Metals Analysis**

| <b>Metal</b> | <b>Concentration<br/>(ug/L)</b> | <b>Std Deviation<br/>(ug/L)</b> | <b>% Deviation</b> | <b>Number of<br/>Samples</b> |
|--------------|---------------------------------|---------------------------------|--------------------|------------------------------|
| Arsenic      | 1.29                            | 0.18                            | 14                 | 21                           |
| Selenium     | 2.60                            | 0.37                            | 14                 | 7                            |

Once it became clear that metals analysis in high total dissolved solids (TDS) matrices required special attention, method reporting limits (MRLs) for all metals being analyzed by MWD on behalf of the project were compared to Ocean Plan requirements to assess which metals required special analysis. This proved to be the case for:

- Arsenic,
- Chromium,
- Copper,
- Lead,
- Mercury,
- Nickel,
- Selenium,
- Silver,
- and Zinc.

Arsenic, mercury, and selenium were already being analyzed by Weck Laboratories with sufficient accuracy; the remaining metals were sent to Columbia Analytical Services in Kelso, Washington for analysis using a reductive precipitation technique followed by ICP-MS of the re-suspended metals. Several low-concentration detections were obtained using this more sensitive method (Table 3). All concentrations are given in ug/L. Statistics are not given for this data set because the raw seawater sample set contains only one sample; however, the RO concentrate data set contains four (4) samples.

**Table 3**  
**Raw Seawater and Pilot Plant RO Concentrate Metals Analysis**

| Metal    | MRL  | Raw Water | RO Concentrate |
|----------|------|-----------|----------------|
| Chromium | 0.2  | 0.2       | 0.4            |
| Copper   | 0.1  | 0.4       | 39             |
| Lead     | 0.02 | 0.18      | 0.11           |
| Nickel   | 0.2  | 0.3       | 1.5            |
| Silver   | 0.02 | 0.5       | 1.5            |
| Zinc     | 0.5  | 1         | 7.8            |

The metal concentrations reported using these advanced analytical techniques for seawater matrices exhibit substantially lower concentrations, and concentrations that compare more favorably with the expected seawater metal concentrations reported in the Ocean Plan.

CRG Marine Laboratories, a local laboratory in Torrance, was also determined to use a reductive precipitation technique followed by ICP/MS for seawater analysis to eliminate interferences without using molecular correction factors. Due to the availability of this advanced analytical technique in the local community, and its proven result of more accurate metals analysis, West Basin is now sending all

Mazhar Ali

California Regional Water Quality Control Board, Los Angeles Region

June 16, 2004

Page 5 of 5

metals samples for the waste brine monitoring reports to CRG. Metals data from the January and April 2004 waste brine monitoring reports are summarized in Table 4 to illustrate the improved results over those reported in Table 1.

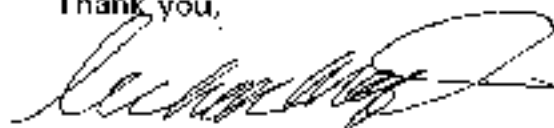
**Table 4**  
**Waste Brine Metals Analysis**

| Metal    | 15 Dec 2003 | 4 March 2004 | 4 March 2004 | Detection Limit |
|----------|-------------|--------------|--------------|-----------------|
| Arsenic  | 1.81        | 1.38         | 1.21         | 0.015           |
| Chromium | 1.88        | 1.83         | 1.56         | 0.01            |
| Copper   | 26.1        | 1.24         | 1.17         | 0.01            |
| Lead     | 0.64        | 0.28         | 0.27         | 0.01            |
| Mercury  | ND          | ND           | ND           | 0.01            |
| Nickel   | 1.23        | 0.94         | 0.92         | 0.01            |
| Selenium | ND          | 0.07         | 0.08         | 0.015           |
| Silver   | ND          | 0.01         | 0.03         | 0.01            |
| Zinc     | 13          | 8.24         | 7.13         | 0.01            |

In conclusion, West Basin believes that this new analytical method for metals more accurately represents the true concentration of metals present in the desalination pilot plant effluent. West Basin intends to continue using this technique for all future metals samples.

If you should have any questions regarding the change in analytical methods for metals, please feel free to contact me at (310) 660-6210.

Thank you,



Richard Nagel  
Manager of Water Quality



**West Basin Municipal Water District**

17140 N. Avalon Blvd • Suite 210 • Carson, CA 90746-1296

telephone 310 217 2411 • fax 310 217 2414

August 6, 2004

Jonathan Bishop  
Interim Executive Officer  
California Regional Water Quality Control Board, Los Angeles Region  
320 W. 4<sup>th</sup> Street, Suite 200  
Los Angeles, CA 90013

Dear Mr. Bishop

Subject: Request for Time Extension for Seawater Desalination Pilot Project

West Basin Municipal Water District (West Basin) would like to take this opportunity to thank the Regional Water Quality Control Board (RWQCB) for their collaboration, support, and permission to conduct seawater desalination research. West Basin would also like to thank El Segundo Power LLC (El Segundo) for allowing us to install and operate a seawater desalination pilot plant at the El Segundo Power Generating Station. West Basin is grateful for the support of El Segundo and for their assistance in coordinating the project into their daily operations, as well as tapping into their site influent as a feed source for the pilot.

West Basin has been operating the pilot since May of 2002, using cold water from the Power Plant's seawater intake line, and returning that flow back into the intake line. This has resulted in no net increase in the amount of ocean water pulled into the Power Plant's site. Research conducted during pilot operations has resulted in determining the optimal operating conditions and cleaning procedures, while also evaluating water quality. Although operating for more than 2-years, the pilot has not consistently run due to operational breakdown, membrane fiber breakage, unit vibration, and membrane oxidation. Except for operational breakdown, which still occurs and is out of our control, these issues have been addressed and the problems corrected.

Now that operational conditions have been well documented, West Basin plans to continue pilot operations on warm water from the Power Plant's effluent rather than the current cold water source from the Power Plant's influent. The goal of this approach is to evaluate the expected energy savings from running seawater desalination on warm water. West Basin anticipates a reduction in energy use and costs as well as a smaller equipment footprint for operating on warm water. Furthermore, a second pre-treatment unit employing ultrafiltration will be brought on site to compare to microfiltration. The

Jonathan Bishop  
California Regional Water Quality Control Board, Los Angeles Region  
August 6, 2004  
Page 2 of 2

additional unit will require an increased flow rate up to 80 gallons per minute to operate both.

These studies will be conducted in addition to the pipe loop corrosion study that the California Department of Health Services requested to evaluate distribution system water quality. The RWQCB gave approval for this study in April of 2004. Three different blends of water (100% RO permeate, 50% RO permeate-50% imported water, 100% imported water) will be tested through copper, galvanized steel, and brass pipe loops to study the effects of desalinated seawater on household plumbing. The study will also investigate taste and odor issues, pipe corrosion, and specialty water quality analyses.

All of these study parameters are estimated to extend through to December 2006. Therefore, based on past support from the RWQCB for seawater desalination, West Basin respectfully requests the RWQCB's permission to operate with the additional flow needs as well as within the requested time extension.

Please contact Jennifer Bender at 310-660-6253 with any questions, comments, or concerns. Thank you very much.

Sincerely,

Richard Nagel, P.E.  
Manager of Water Quality

Enclosures: NRG-West Basin letter of support  
Seawater Desalination Pilot Project Description

cc: Audun Aaberg, NRG El Segundo Operations, Inc.  
Tim Hemig, NRG Energy, Inc.  
Marc Kodis, NRG Energy, Inc.  
Paul Shoenberger, West Basin



**West Basin Municipal Water District**

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telephone 310-217-2411 • fax 310-217-2414

September 2, 2004

Jonathan Bishop  
Interim Executive Officer  
California Regional Water Quality Control Board, Los Angeles Region  
320 W. 4<sup>th</sup> Street, Suite 200  
Los Angeles, CA 90013

Dear Mr. Bishop

Subject: Request for Time Extension for Seawater Desalination Pilot Project

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West Basin has been operating the pilot since May of 2002, using cold water from the Power Plant's seawater intake line, and returning that flow back into the intake line. This has resulted in no net increase in the amount of ocean water pulled into the Power Plant's site. Research conducted during pilot operations has resulted in determining the optimal operating conditions and cleaning procedures, while also evaluating water quality. Although operating for more than 2-years, the pilot has not consistently run due to operational breakdown, membrane fiber breakage, unit vibration, and membrane oxidation. Except for operational breakdown, which still occurs and is out of our control, these issues have been addressed and the problems corrected.

Now that operational conditions have been well documented, West Basin plans to continue pilot operations on warm water from the Power Plant's effluent (Conduit 2) rather than the current cold water source from the Power Plant's influent. The goal of this approach is to evaluate the expected energy savings from running seawater desalination on warm water. West Basin anticipates a reduction in energy use and costs as well as a smaller equipment footprint for operating on warm water. Furthermore, a second pre-treatment unit employing ultrafiltration will be brought on site

Jonathan Bishop  
California Regional Water Quality Control Board, Los Angeles Region  
September 2, 2004  
Page 2 of 2

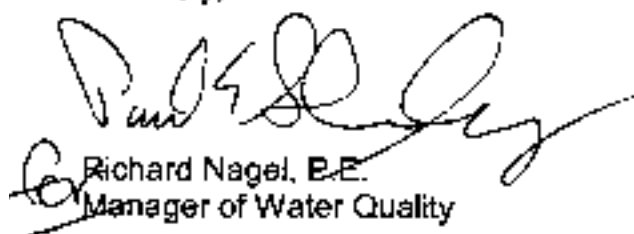
to compare to microfiltration. The additional unit will require an increased flow rate up to 80 gallons per minute to operate both.

These studies will be conducted in addition to the pipe loop corrosion study that the California Department of Health Services requested to evaluate distribution system water quality. The RWQCB gave approval for this study in April of 2004. Three different blends of water (100% RO permeate, 50% RO permeate-50% imported water, 100% imported water) will be tested through copper, galvanized steel, and brass pipe loops to study the effects of desalinated seawater on household plumbing. The study will also investigate taste and odor issues, pipe corrosion, and specialty water quality analyses.

All of these study parameters are estimated to extend through to December 2006. Therefore, based on past support from the RWQCB for seawater desalination, West Basin respectfully requests the RWQCB's permission to operate with the additional flow needs as well as within the requested time extension.

Please contact Jennifer Bender at 310-660-6253 with any questions, comments, or concerns. Thank you very much.

Sincerely,



Richard Nagel, P.E.  
Manager of Water Quality

Enclosures: NRG-West Basin letter of support  
Seawater Desalination Pilot Project Description

cc: Audun Aaberg, NRG El Segundo Operations, Inc.  
Tim Hemig, NRG Energy, Inc.  
Marc Kodis, NRG Energy, Inc.  
Keith Richards, NRG Energy, Inc.  
Paul Shoenberger, West Basin

**SEGUNDO POWER LLC**

---

C. C. JENNIFER, P.E.

August 20, 2004

Mr. Paul Shoenberger  
Chief of Engineering and Operations  
West Basin Municipal Water District  
17140 S. Avalon Blvd, Suite 210  
Carson, CA 90746

SUBJECT: West Basin Municipal Water District (the "District") Seawater Desalination Pilot Plant (the "Pilot")

Dear Mr. Shoenberger:

Since May of 2002, the District has maintained the Pilot sited at the El Segundo Power Generating Station ("Station"). The written concurrence for the project issued by the Regional Water Quality Control Board (the "Board") determined that the Pilot operation does not constitute a material change for the Station's existing National Pollutant Discharge Elimination System ("NPDES") permit issued by the Board to the Station. The Board's written concurrence provided for Pilot operation through January, 2005 for a 30 gallon per minute ("gpm") plant.

The District desires to continue the operation of the Pilot beyond January, 2005, to expand Pilot operations, and to approach the Board for a revised concurrence letter. District staff and its consultants have advised us that the District desires to extend Pilot operations to December 2006 and to modify Pilot operations as follows:

- adding a Zenon Ultrafiltration (UF) unit to operate in parallel with the existing microfiltration (MF) unit within the current footprint
- an additional 100 amps of 480 VAC 3ph 60Hz power
- adding a new self-priming feed pump and feed line to the site to increase Pilot feed to 80 gpm
- switching Pilot source water from the Station intake to the Station outfall to demonstrate desalination from warm discharge water
- excavation (subject to Station management approval) to finalize an appropriate warm water sampling location
- evaluating the use of chlorine dioxide and ultraviolet radiation for biofouling control

District staff has advised us that these proposed operational changes, in combination with the pipe loop corrosion study that recently started, will also cause a change in the chemicals used at the Pilot. An estimate of the revised chemical usage includes:

Used Continuously/Semi-Continuously

The following chemicals are proposed to be used on a regular basis and discharged (thoroughly mixed with return seawater) into the outfall forchbay

- Sodium Hypochlorite (for MF/UF backwash only) - 7 gallons per month
- Sodium Bisulfite - 71 gallons per month
- Reverse Osmosis Antiscalant Nalco Permaset 191 - 3 gallons per month
- Calcium Hydroxide - [quantity to be determined]

Used As Needed for Periodic Cleaning

The following chemicals will be used as needed for cleaning and will be drummed and taken off-site for disposal

- Citric Acid- 18 pounds per month
- Sodium Hypochlorite - <1 gallon per month
- Betz Dearborne KLEEN MTC 411 - 8 pounds per month

Although Pilot intake flow will increase to 80 gpm (115,200 gallons per day ("gpd")), the flow ratio between Station and Pilot operations will be less than 0.06% or a 1 to 1,600 blend ratio (115,200 gpd to 200,000,000 gpd).

From this description, it does not appear to us that there will be any material impact on the Station's existing NPDES permit. We are willing to permit Pilot operations to continue and expand as provided above, and consistent with, and subject to, the existing license granted by El Segundo Power, LLC to the District for use of the property at the Station; provided, however, that the District first obtain written concurrence from the Board for the specifics noted above, before work is initiated; and provided further that El Segundo Power, LLC may terminate this extension upon sixty days prior written notice.

We look forward to a continued cooperative relationship with the District during the course of its seawater desalination research effort.

Very truly yours,



David Lloyd  
Secretary  
(760) 268-4069  
Fax (760) 268-4017

cc: Audun Aaberg, Tim Hemig, Keith Richards, Marc Kodis



**West Basin Municipal Water District**

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telephone 310-217-2411 • fax 310-217-2414

September 2, 2004

**West Basin Municipal Water District Seawater Desalination Pilot Project**

In 2002, West Basin Municipal Water District (West Basin) launched a seawater desalination pilot project to study the latest technology in ocean water desalination. The project is located at the El Segundo Power Generating Station and employs microfiltration (MF) pretreatment followed by reverse osmosis (RO).

In the 2-years of operation, the pilot plant has proven that desalinated ocean water is a realistic consideration. The project has also optimized the MF operating conditions to include membrane flux, backwash procedure, and clean in place procedures. The RO membranes have been operationally tested at various flux rates, while the RO concentrate and MF backwash streams have been analytically characterized. Design parameters have also been developed.

The project has also evaluated various source water qualities, investigated the effects of pretreatment on water quality, researched case studies, and characterized brine quality. The recently initiated pipe loop corrosion study aims to evaluate corrosion control, taste and odor issues, and will include specialty water quality analyses.

The pilot plant currently pumps 28 gallons per minute (gpm) from the Power Plant's ocean water cooling system, and ultimately produces 8.8 gpm of fresh water. The difference is produced as concentrate, used in the system process, or held in a break tank to continually feed the RO unit.

Pilot plant operations are now estimated to continue through December 2006 with several proposed project changes. The pilot plant will switch to running on a warm water feed source from the Power Plant outfall (Conduit 2) instead of the current cold water source. This will study the possibility of lower energy costs needed to desalinate the water, a possible smaller footprint needed, environmental benefits of no additional intake water, and also evaluate the effects of warm water in the distribution system.

In addition, a second pre-treatment unit will be brought on site to test out ultrafiltration (UF) technology. With the addition of a second unit, intake flows will increase to 80 gpm. Finally, the use of chlorine dioxide and ultraviolet radiation for biofouling control will be evaluated on the warm water. The proposed expansion of this project is in addition to the pipe loop corrosion study currently in progress.

Chemicals used and discharged on site will now include:

- Sodium hypochlorite (for MF/UF backwash only) – 7 gallons per month
- Sodium bisulfite – 71 gallons per month
- Reverse osmosis antiscalant Nalco Permamatreat 191 – 3 gallons per month
- Calcium hydroxide

With the expanded intake flows (80 gpm or 115,200 gallons per day [gpd]), the flow ratio between the Power Plant operations and the seawater desalination pilot plant will be less than 0.06% or a 1 to 1,600 blend ratio (115,200 gpd to 200,000,000 gpd).



**Jerry Tanaka**  
*Secretary for  
Environmental  
Protection*

## STATE WATER RESOURCES CONTROL BOARD

### Executive Office

Arthur G. Baggeri Jr., Chair  
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**Arnold Schwarzenegger**  
*Governor*

### VIA EMAIL

**TO:** Regional Board Executive Officers

*/s/*

**FROM:** Celeste Cantú  
Executive Director  
**EXECUTIVE OFFICE**

**DATE:** February 24, 2004

**SUBJECT:** INCIDENTAL RUNOFF OF RECYCLED WATER

This memorandum transmits State Water Resources Control Board (State Board) staff recommendations regarding regulatory management of incidental runoff. Incidental runoff refers to small amounts of runoff from intended recycle water use areas, over-spray from sprinklers that drifts out of the intended use area, and overflow of ponds that contain recycled water during storms. This discussion is limited to recycled water that has received tertiary filtration for pathogen removal as specified under Title 22.

#### Background

The State Legislature established the California Recycled Water Task Force (Task Force) in 2001. The mission of the Task Force was to evaluate the current framework of State and local rules, regulations, ordinances, and permits to identify opportunities for and obstacles to the safe use of recycled water in California. The Task Force consisted of 40 members representing State and local regulatory agencies, water and wastewater utilities, environmental groups, and federal resource agencies. The chairman of the Task Force was Richard Katz, who is also a State Board member.

In June 2003, the Task Force completed its review and issued its final report, titled "Water Recycling 2030, Recommendations of California's Recycled Water Task Force." Recommendation 4.2.1 of the report states that the State Board should convene a committee to review the legal requirements of federal and State statutes and regulations that relate to the regulation of incidental runoff of recycled water to determine the regulatory and enforcement options that are available to the regional boards. A stakeholder committee was convened in December 2003 for this purpose. Many of the committee's recommendations are included in this memorandum.

### Framework for Regulation of Incidental Runoff

The Water Code defines recycled water as "water, which, as a result of treatment, is suitable for a direct beneficial use or a controlled use that would not otherwise occur and is therefore considered a valuable resource" (Water Code section 13050(n)). A legislatively established objective is to use recycled water in place of fresh water to assist in meeting the future water requirements of the State. To implement this objective, the California Water Code has a stated goal of recycling one million acre-feet of water per year by 2010. The Water Code also states that the use of potable domestic water for non-potable uses, including, but not limited to, cemeteries, golf courses, parks, highway landscape areas, and industrial and irrigation uses, is a waste and unreasonable use of water if recycled water is available that meets specified conditions for its use.

In order to avoid nuisance problems, recycled water applied for irrigation is intended to remain on the irrigated areas. Nonetheless, while incidental runoff or over-spray of minor amounts of recycled water can be minimized, it cannot be completely prevented. Similarly, it is not possible to entirely prevent the runoff of rainwater from areas irrigated with recycled water or from decorative or storage ponds filled with recycled water, particularly during major storm events. The Task Force Report notes, however, that in some instances regional boards assume that any amount of incidental runoff requires the regional board to treat the runoff as a discharge of treated wastewater requiring an NPDES permit (referred to as the "one molecule rule").

This approach is problematic for several reasons. Most importantly, this permitting practice renders the use of recycled water undesirable for many parties. Customers are not willing to assume the cost and the potential liability associated with either securing an individual NPDES permit or ensuring that no incidental runoff will ever leave the permitted application area. Moreover, this approach does not properly acknowledge that recycled water quality is already regulated by both the regional boards and the Department of Health services, and must meet stringent requirements at the time it is applied to the site. Finally, the prohibition approach blurs the distinction between wastewater and recycled water that has been repeatedly recognized by the Legislature.

To further the goal of maximizing the use of recycled water, the water quality laws should be interpreted in a manner that is consistent with the intent of the Legislature to promote recycled water use. Consequently, incidental runoff from recycled water projects should be handled as follows:

1. Where reclamation requirements prohibit the discharge of waste to waters of the State and discharges are not expected to occur, occasional runoff should not trigger the need for either an individual NPDES permit or enforcement action.

2. If discharges from a reclamation project area occur routinely, such discharges can be regulated under a municipal storm water NPDES permit in most cases.
3. In limited cases, where necessary to address a water quality concern, discharges of recycled water to surface waters may be regulated under an individual NPDES permit. An NPDES permit, however, should not be issued unless necessary to achieve water quality objectives.

Generally, parties using reclaimed water will want to operate in such a way as to avoid the need for an individual NPDES permit. The discussion below describes the framework for regulating incidental runoff from irrigation systems and from storage ponds without issuing such a permit.

#### Incidental Runoff Associated with Recycled Water Irrigation

Recycled water use facilities should be designed and operated to avoid runoff to waters of the State. The regional boards should work with recycled water users to help them achieve this goal. Nonetheless, incidental runoff is likely to occur at many facilities. Consequently, regional boards should include the following language in water recycling requirements.

The incidental discharge of recycled water to waters of the State is not a violation of these requirements if the incidental discharge does not unreasonably affect the beneficial uses of the water, and does not result in exceeding an applicable water quality objective in the receiving water."

The language is modeled after the language included in the Master Reclamation Requirements issued by the San Francisco Bay Regional Board.

#### Releases from Recycled Water Ponds

A principal water quality concern with recycled water ponds is the presence of locally added pollutants, such as fertilizers and algacides. These same issues exist with potable water ponds.

Recycled water ponds should be designed and operated not to spill during dry months. Spills should be prohibited during these times. Generally, wet weather regulatory strategies that do not require individual NPDES permits fall within the following categories.

1. The recycled water pond is designed not to spill during wet months. Under this circumstance, spills that occur under extreme weather conditions or emergencies should not be considered for enforcement.
2. Recycled water ponds can be drained and refilled with potable water or flushed with potable water prior to the onset of the wet season. Flushing will not displace all of the recycled water but the water quality threat is minimal.

3. Recycled water ponds designed to spill recycled water during the wet season can be regulated under Phase 1 municipal storm water permits or under a general storm water permit. These permits require reduction of pollutants to the maximum extent practicable. The permits also incorporate receiving water limitations requiring the implementation of an iterative process for addressing any exceeding of water quality objectives.

Thank you for your attention to this memorandum. If you have questions, please contact me at (916) 341-5615.

***Section 10.0***  
***Request For Schedule to Submit Information For Rule 316 (b) Phase***  
***II Compliance***

*El Segundo Power, LLC*  
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September 23, 2004

John Bishop, P.E.  
C/O California Regional Water Quality Control Board  
Los Angeles Region  
ATTN: Technical Support Unit  
320 W 4<sup>th</sup> Street, Suite 200  
Los Angeles, CA 90013

**RE: Request for Schedule to Submit Information to Comply with the Phase II 316(b) Rule (40 CFR Part 125 Subpart F)**

Dear Sir,

By this letter El Segundo Power, LLC (ESP) requests a schedule for submitting the information required by EPA's new Phase II 316(b) Rule for cooling water intake structures for the El Segundo Generating Station (ESGS). For the reasons to be presented in the following letter, ESP requests your approval to allow the information required by 40 CFR 125.95 to be submitted to you no later than January 7, 2008. In our circumstances, this date is as "expeditious as practicable." The basis for our request is explained below.

As you know, on July 9, 2004, EPA published its final rule prescribing how "existing facilities" may comply with Section 316(b) of the Clean Water Act. 69 Fed. Reg. 41575, 41683 (July 9, 2004). For most existing facilities, this rule will require a large amount of data to establish "best technology available" for the facility's intake structure and to demonstrate compliance with the rule.

ESGS is a "Phase II existing facility" within the meaning of 40 CFR 125.91. As such, it is required to comply with the Phase II rule, and in particular to submit the studies and information required by 40 CFR 125.95.

Section 125.95 of the new rule requires detailed studies and other information to establish what intake structure technology or other measures will be used to comply with the rule. Ordinarily this material is to be submitted with the facility's next application for renewal of its NPDES permit. See 40 CFR 125.95, 122.21(r)(1)(ii), 122.21(d)(2). For permits that expire less than four years after the rule was published on July 9, 2004 (that is, before July 9, 2008), the facility may have up to three and half years to submit the information, so long as it is submitted "as expeditiously as practicable." See 40 CFR

125.95(a)(2)(ii). The facility may have even longer, until the end of the permit term, under 40 CFR 122.21(d)(2)(i), if the permitting agency agrees.

The current NPDES permit for ESGS expires on May 10, 2005, well before July 9, 2008. Therefore, ESP hereby requests that you authorize the information called for by 125.95 to be submitted as expeditiously as practicable, which, as explained below, will require until January 7, 2008.

In order to satisfy the "expeditiously as practicable" requirement, it should be noted that ESP began the process of collecting the necessary information even before the final rule was published. ESP actually began as early as last year to begin collecting information and conducting internal evaluations on how the, at that time draft, requirements could be complied with at ESGS. Such information collection included preliminary technology assessments and research into existing data and information. ESP has also actively participated in the Los Angeles Regional Water Quality Control Board's (Board) initiation of 316(b) Working Group meetings, including the first meeting held on August 28, 2003, and also by hosting the most recent meeting at our ESGS site on July 12, 2004.

Despite our early efforts, we will still need until January 7, 2008, to complete the studies and collect the information required by 40 CFR 125.95. Our detailed explanation is presented below by first summarizing the significant number of informational requirements that must be submitted and then concludes by presenting the schedule by which the information would be submitted.

#### **Cooling Water System Data**

First, all facilities covered by the Phase II Rule must submit "cooling water system data" as required by 40 CFR 122.21(c)(5). This includes a narrative description of the operation of the cooling water system, its relationship to cooling water intake structures, the proportion of the design intake flow that is used in the system, the number of days of the year the cooling water system is in operation, and the seasonal changes in the operation of the system, if applicable. It also includes design and engineering calculations prepared by a qualified professional and supporting data to support the description of the operation of the cooling water system. See 40 CFR 122.21(R)(5)(i) and (ii). This information must be submitted at the same time as the Comprehensive Demonstration Study as discussed below. See 40 CFR 125.95(a)(2).

#### **Proposal for Information Collection**

Under 40 CFR 125.95(a)(1), ESP must also submit a Proposal for Information Collection (PIC). Preparing the PIC is a large undertaking. The PIC must contain the items listed in 40 CFR 125.95(b)(1), including a description of proposed and/or implemented

technologies, operational measures, and/or restoration measures to be evaluated, a list and description of historical studies characterizing impingement mortality and entrainment and/or the physical and biological conditions in the vicinity of the cooling water intake structures and their relevance to the proposed study. For existing data, it must demonstrate the extent to which the data are representative of current conditions and that the data were collected using appropriate quality assurance/quality control procedures. The PIC must also include a summary of past or ongoing consultations with federal, state and tribal fish and wildlife agencies and a copy of their written comments, as well as a sampling plan for any new field studies describing all methods and quality assurance/quality control procedures for sampling and data analysis.

Because of the magnitude and specialized nature of the information to be submitted in the PIC, it is likely that ESP will have to contract with an outside consulting firm to obtain qualified personnel to perform the work and to handle the increased workload. ESP's contractor procurement process has precise steps that must be undertaken to conform to internal policies and procedures and applicable law. Including the time it takes to contract with a qualified consulting firm and to develop the PIC, ESP believes a comprehensive PIC could not be submitted for the Board's review and approval any earlier than August 1, 2005. ESP asks that the Board either approve it or advise us of any needed changes within 60 days as described in Sec 40 CFR 125.95(a)(1), 125.95(b)(1).

### **Comprehensive Demonstration Study**

The Comprehensive Demonstration Study (CDS), as described in 40 CFR 125.95(b), includes many mandatory sections that require substantial effort and time to develop and submit. Many sections of the CDS require that the information collection process described in the PIC be completed prior to being able to initiate those sections of the CDS. Because the PIC data collection will not be completed until early 2007, as described below in the Impingement Mortality and/or Entrainment Characterization Study section, much of the CDS will have to be completed during calendar year 2007. This will most likely be a significant time constraint due to the level of work required by the Phase II 316(b) regulation. Below, ESP will describe each section of the CDS in detail, providing ample justification that ESP's proposed complete CDS submission schedule is "as expeditiously as practicable."

### **Source Water Flow Information**

Because ESGS operates on the Pacific Ocean, no specific source waterbody flow information is required to be submitted. See 40 CFR 125.95(b)(2).

#### Impingement Mortality and/or Entrainment Characterization Study

ESP must provide, pursuant to 40 CFR 125.95(b)(3), an Impingement Mortality and/or Entrainment Characterization Study. This study must include (i) taxonomic identifications of all life stages of fish, shellfish, and any species protected under federal, state, or tribal law that are in the vicinity of the cooling water intake structures and are susceptible to impingement and entrainment; (ii) a characterization of all life stages of fish, shellfish, and any protected species, including a description of the abundance and temporal and spatial characteristics in the vicinity of the cooling water intake structures, based on sufficient data to characterize annual, seasonal, and diel variations in impingement mortality and entrainment (e.g., related to climate and weather differences, spawning, feedings, and water column migration). These may include historical data that are representative of current operation of the facility and of biological conditions at the site.

ESP must also document the current impingement mortality and entrainment of all life stages of fish, shellfish, and protected species and provide an estimate of impingement mortality and entrainment to be used as the "calculation baseline." See 40 CFR 125.95(b)(3)(iii). This may include historical data representative of the current operation of the facility and of biological conditions at the site. Impingement mortality and entrainment samples to support the calculations must be collected during periods of representative operational flows for the cooling water intake structure, and the flows associated with the samples must be documented.

ESP expects to submit, within the PIC document, justification for using the historical and representative impingement and entrainment data as well as new data to be collected. ESP is still evaluating how to most efficiently and reliably collect new representative data, but expects that new entrainment data will likely be collected for approximately one year. New data collected will not commence until the Board has approved ESP's PIC and new sampling plan (40 CFR 125.95(b)(1)(iv)), which, as explained above, is expected to be submitted by August 1, 2005. Therefore, because the Board has 60 days to respond to the PIC and may ask for more information or clarification, the earliest likely date the new entrainment data collection period could commence is approximately the beginning of calendar year 2006, and likely concluding in early 2007.

#### Design and Construction Technology Plan

Another analysis that must be provided is the Design and Construction Technology Plan. See 40 CFR 125.95(b)(4). If ESP decides to use design and construction technologies and/or operational measures to comply with the Phase II rule, a plan must be submitted that provides the capacity utilization rate for the two individual intake structures at ESCS and provide supporting data (including the average annual net generation of the facility in

MWh) measured over a five-year period (if available) of representative operating conditions and the total net capacity of the facility in MW, along with the underlying calculations. The plan must explain the technologies and/or operational measures that ESGS has in place and/or have selected to meet the requirements of the rule.

This Design and Construction Technology Plan must contain a large amount of information, as described in 40 CFR 125.95(b)(4)(A)-(D). This information includes (A) a narrative description of the design and operation of all design and construction technologies and/or operational measures, including fish handling and return systems, and information that demonstrates the efficacy of the technologies and/or operational measures; (B) a narrative description of the design and operation of all design and construction technologies and/or operational measures and information that demonstrates the efficacy of the technologies and/or operational measures for entrainment; (C) calculations of the reduction in impingement mortality and entrainment of all life stages of fish and shellfish that would be achieved by the technologies and/or operational measures we have selected; and (D) design and engineering calculations, drawings, and estimates prepared by a qualified professional to support the descriptions described above.

#### Technology Installation and Operation Plan (TIOP)

Assuming ESP decides that the best way to comply with the Phase II rule is to use design and construction technologies and/or operational measures, in whole or in part, we must submit to you the following information, in accordance with 40 CFR 125.95(b)(4)(ii): (A) A schedule for the installation and maintenance of any new design and construction technologies; (B) a list of operational and other parameters to be monitored and the location and frequency that we will monitor them; (C) a list of activities we will undertake to ensure to the degree practicable the efficacy of installed design and construction technologies and operational measures and our schedule for implementing them; (D) a schedule and methodology for assessing the efficacy of any installed design and construction technologies and operational measures in meeting applicable performance standards or site-specific requirements, including an "adaptive management plan" for revising design and construction technologies, operational measures, operation and maintenance requirements, and/or monitoring requirements in the event the assessment indicates that applicable performance or site-specific requirements are not being met; and (E) if ESP chooses the compliance alternative in 125.94(a)(4) (wedge-wire screens or a technology approved by the state), documentation that the appropriate site conditions described in 125.99(a) or (b) exist at our facility.

#### Restoration Plan

If ESP determines that restoration measures are the best method to comply with the new rule, in whole or in part, then a Restoration Plan must be submitted in the CDS. This plan must include the information described in 40 CFR 125.95(b)(5). It must include a plan using an adaptive management method for implementing, maintaining, and demonstrating the efficacy of the restoration measures that are selected and for determining the extent to which the restoration measures, or the restoration measures in combination with design and construction technologies and operational measures, have met the applicable performance standards.

#### Site-Specific Requirements

If ESP determines that site-specific requirements are appropriate because the cost of complying with the Phase II rule will be "significantly greater" than either the cost that EPA considered in its rulemaking or the benefits of complying with the rule, then ESP will have to submit the information described in 40 CFR 125.95(b)(6). This includes a Comprehensive Cost Evaluation Study and, for the cost-benefit analysis, a Benefits Evaluation Study. ESP must also include a Site-Specific Technology Plan describing and justifying the site-specific requirements.

#### Verification Monitoring Plan

Finally, ESP must prepare a Verification Monitoring Plan as part of a complete CDS. See 40 CFR 125.95(b)(7). This is a plan to conduct, at a minimum, two years of monitoring to verify the full-scale performance of the proposed or already implemented technologies and/or operational measures.

#### **PIC and CDS Schedule**

The first official submittal (besides this request for a schedule) that ESP will make to the Board in compliance with the Phase II 316(b) regulation will be the PIC. For the reasons explained above, ESP proposes to submit a comprehensive PIC for the Board's review and approval by August 1, 2005. ESP asks that the Board either approve the PIC or advise us of any needed changes within 60 days as described in See 40 CFR 125.95(a)(1), 125.95(b)(1).

Because ESP plans to collect substantial new information as part of the expected PIC, and since the new data collection is not likely to begin until after the Board approves the PIC (approximately early 2006), it is unlikely that the information needed to commence the majority of the sections of the CDS (including the Design and Construction Technology Plan, the Technology Installation and Operation Plan, the Restoration Plan (if applicable), the Site Specific Requirements (if applicable), and the Verification

Monitoring Plan) will be available until late 2006 or early 2007 when the data collection is complete or nearly complete.

Due to the step by step process by which the data must be collected, processed, evaluated, and then turned into a detailed plan of action to achieve the new Phase II 316(b) standards, ESP does not believe a comprehensive CDS can be submitted earlier than January 7, 2008. It is for these important reasons that ESP believes the most expeditious schedule possible for submittal of a comprehensive CDS is by January 7, 2008.

#### Conclusion

Collecting, generating, compiling, and analyzing the large amount of information required by the Phase II 316(b) rule will require a substantial effort. ESP will have to both collect and review already-existing data on the plant and the source waterbody, and we may have to generate significant new biological information.

Because the Phase II rule is new and untried, we foresee the need to coordinate closely with your department as we collect the necessary information, analyze it, and determine what combination of technology, operational measures, or restoration measures will best meet the Phase II rule for ESGS. ESP hopes your staff will be available to consult with us throughout this schedule as we complete these efforts.

For the above reasons, we request that we be allowed until January 7, 2008, to submit the information required for a permit application by the Phase II Rule, 40 CFR Part 125 Subpart J.

Sincerely,  
El Segundo Power, LLC  
By: NRG El Segundo Operations Inc.  
It's Authorized Agent

By:   
Arthur Aaberg  
Regional Plant Manager